

Southeast Asia Selected Products

FESTO

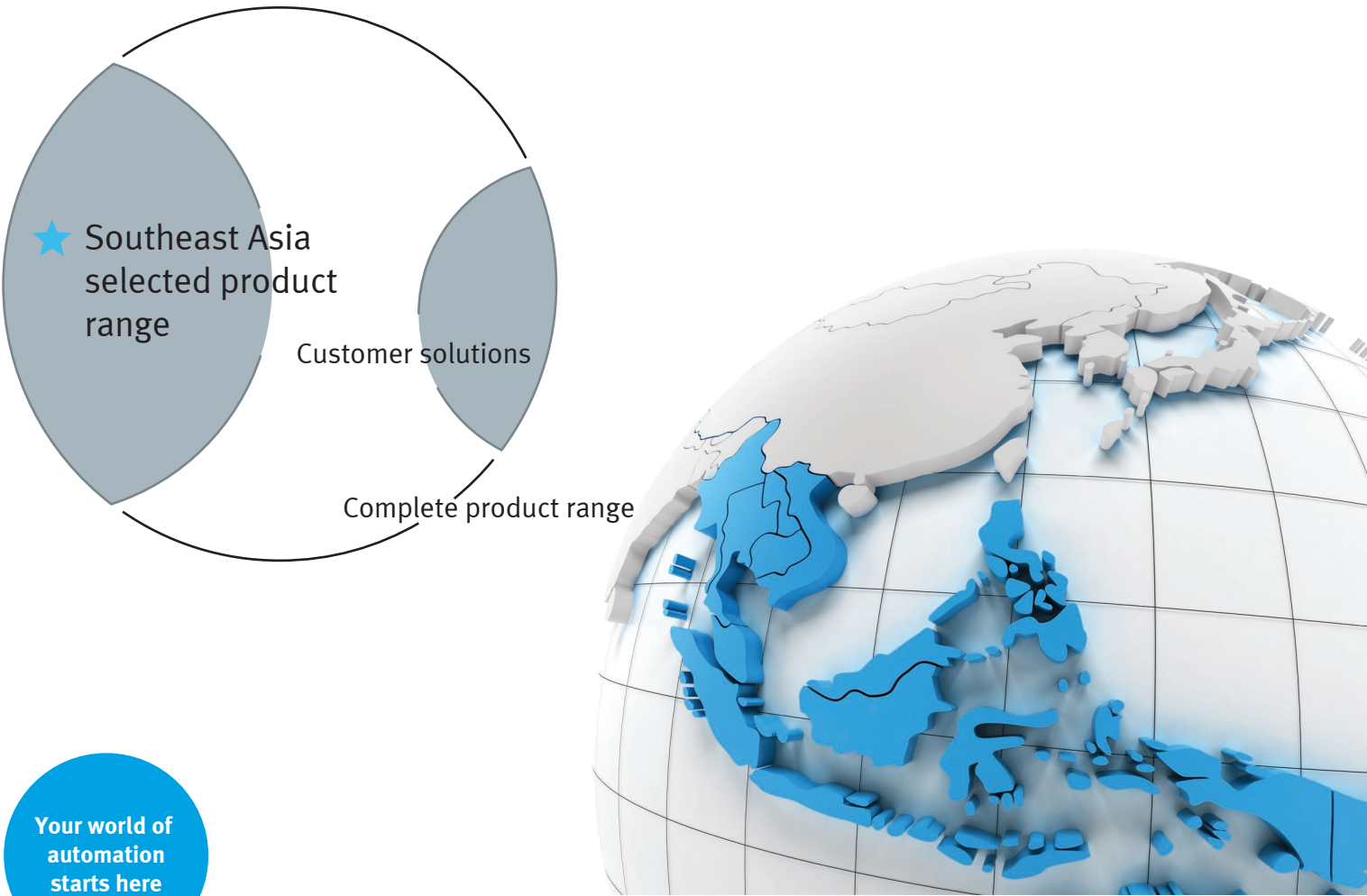
2022



Festo: a partner in dialogue, a partner for maximum productivity.

Our goal is to make you more productive. From actuators to accessories for factory automation as well as process automation - you can reduce procurement complexity for both the electric and pneumatic control chain.

At the same time, we work consistently on our production and delivery capacities worldwide to ensure that



Your world of automation starts here

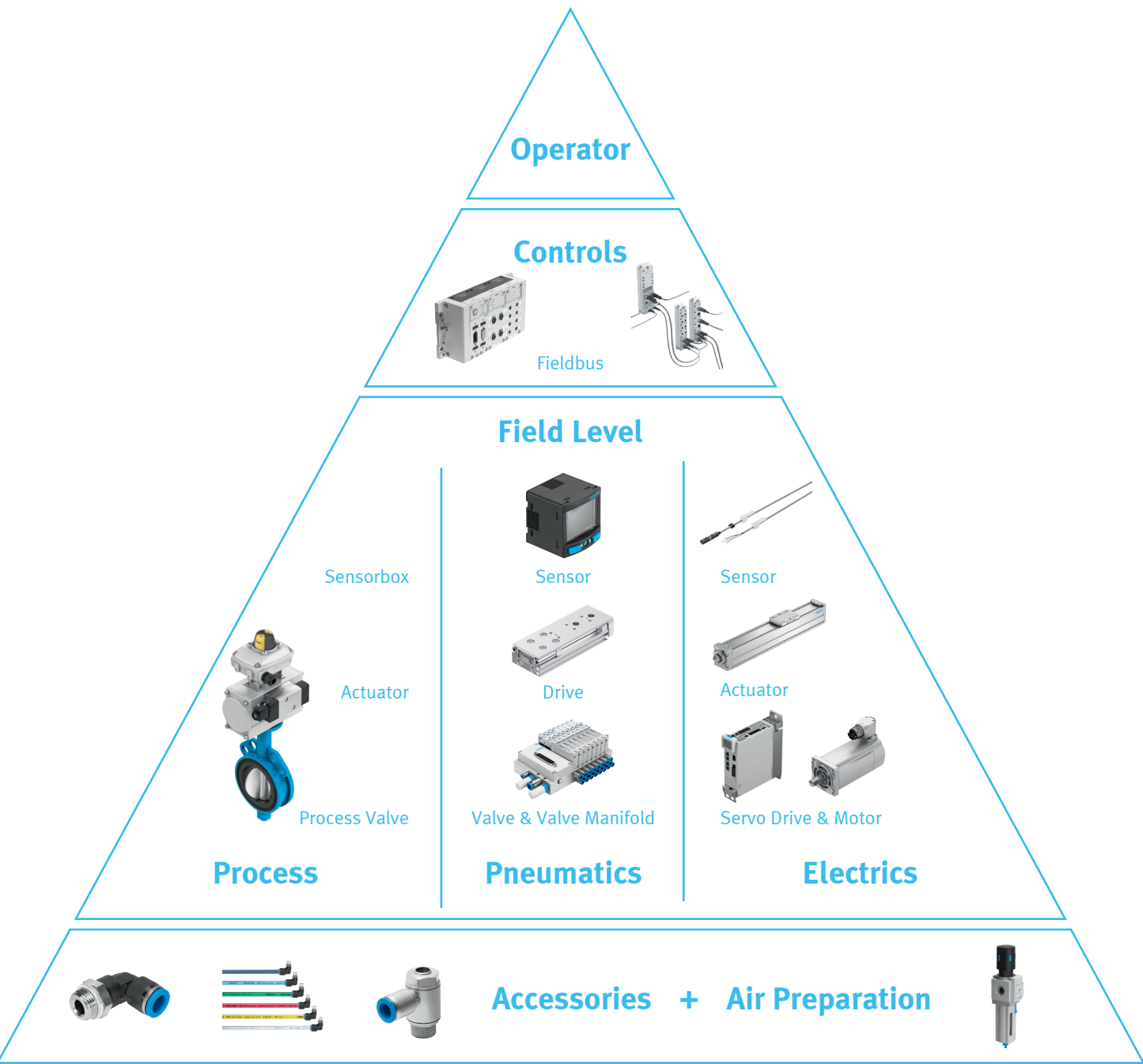
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Controls	Sensors	Actuators	Valves	Electrics	Process	Air Preparation	Accessories






































































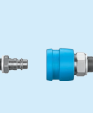







Southeast Asia Selected Products Range

A star, a distinction, a promise: the best for your task. You can choose from an extensive portfolio and benefit from high-quality components at particularly attractive prices

You are looking for cost-effective automation?
You need short delivery times?
We deliver large quantities fast and worldwide.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.



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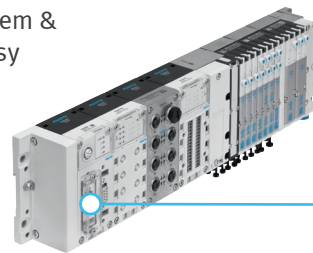
Terminal CPX



PLC/Motion + Pneumatics
Words 1st Hybrid Controller

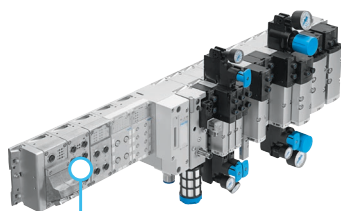
Modular Remote Electric I/O system &
Pneumatics valve terminal for Easy
connection & Diagnostics

CPX-MPA for Low
flow & High-density
connection



CPX-VTSA for High
Flow & High
Availability

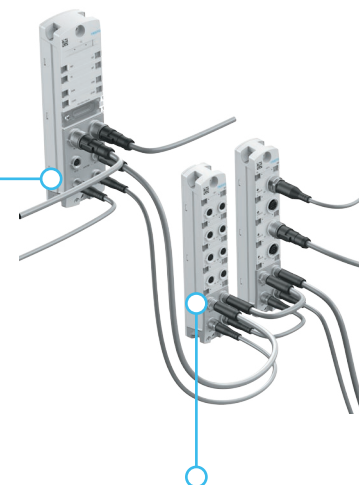
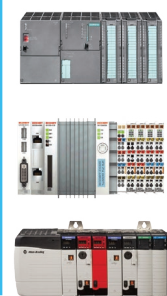
Supported Fieldbus system



Distributed Remote I/O



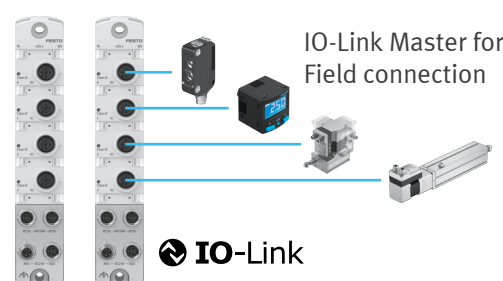
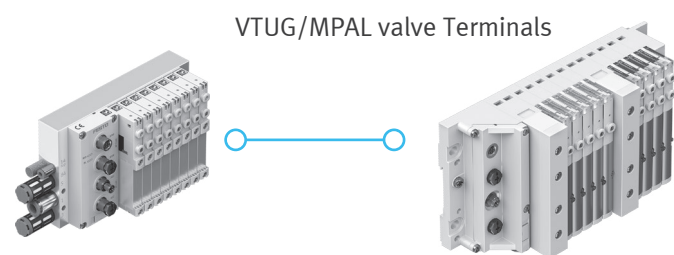
Supported Fieldbus



CPX-AP-I : Keep your
control closer to the
process

Robust IP68/67 Digital &
Analog I/O module

VTUG/MPAL valve Terminals



IO-Link

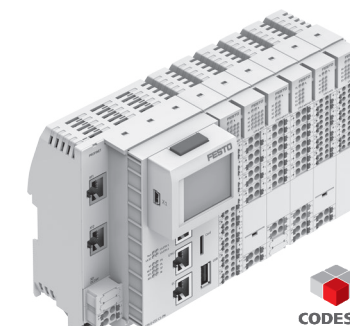
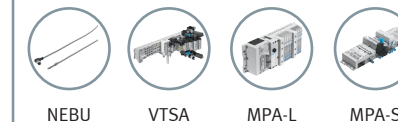


Terminal CPX

- Comprehensive function integration with technology modules
- Installation variants:
 - Stand-alone as remote I/O
 - With valve terminal VTSA-F
 - With valve terminal VTSA
 - With valve terminal MPA-L
 - With valve terminal MPA-S
- I/O modules:
 - Digital
 - Analogue
- Optional CODESYS controller



Frequently bought together

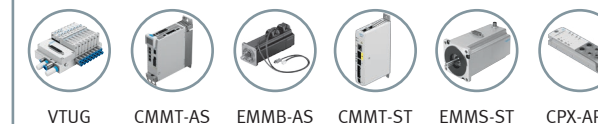


PLC/Motion/Robotic Controller CPX-E

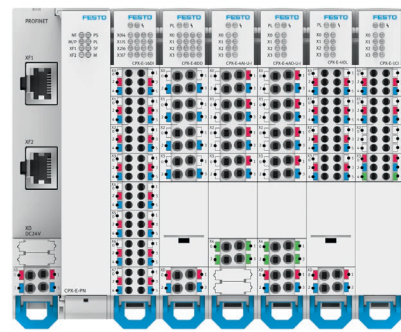
- CPX-E is a high-performance controller for automation solutions focusing primarily on motion & robotic controls
- The following modules are available:
 - PLC/Motion/Robotic Controller
 - Bus modules
 - Input/output modules
 - IO-Link master modules
 - Encoder Module



Frequently bought together



Controls



Remote I/O system CPX-E

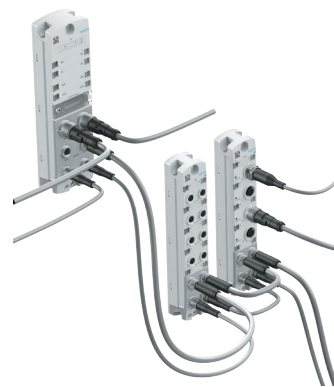
- Reliable & cost effective remote I/O system
- Multi protocol support
- I/O module: analogue/digital
- IO-Link master
- Encoder Module



Frequently bought together



NEBU

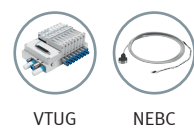


Distributed Remote I/O system CPX-AP-I

- IP65/IP67 Remote I/O system brings input/output controls closer to equipment or process, no electrical panel is needed to mount CPX-AP-I modules.
- Cost effective remote I/O system
- Multi protocol realtime connection
- I/O module: Analogue/Digital
- IO-Link master
- Pneumatic valve interface on highspeed realtime Synchronized AP bus



Frequently bought together



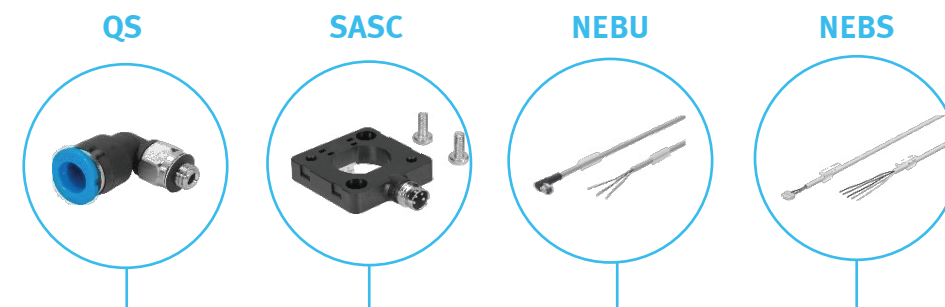
VTUG

NEBC



Sensors

Pressure sensors SPAN



- Easy installation by quick connector and L1 plug connector or M8 electrical adapters.



SMAH

- Front panel + wall mounting kit.



SACC

- Safety guard.



NEW

SPAN-B

- Best fit for basic application.
- Compact design 30 x 30 mm with IP40.
- 3 pressure measuring ranges -1 to 10 bar.
- 1 switchable digital electrical output, PNP/NPN, NO/NC.
- Cu, ZN, Ni-free.

SPAN

- Compact design 30x30mm with IP40 protection.
- 13 pressure measuring ranges (with vacuum).
- Various switching functions.
- Digital (PNP/NPN, NO/NC) or Analogue outputs (0...10V, 4...20mA).
- Serial communication intergrated using IO-Link 1.1.



Precise pressure is monitored in production line



Pressure sensors SPAN

- Compact design 30 x 30 mm
- High-contrast display with blue backlighting
- 13 Pressure measuring range from -1 to 16 bar
- Voltage 20 ... 30 V DC
- 2 Switching output PNP / NPN , NO/NC selectable
- Electrical output 0.1 ... 10 V, 1 ... 5 V, 4 ... 20 mA
- Pneumatic connection G1/8, R1/8, NPT1/8, M5, push-in connector 4 mm,
- Pressure/vacuum switches

IO-Link

Frequently bought together



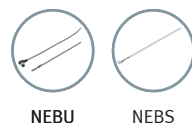
NEBU QS NPQE



Pressure sensors SPAN-B

- Best fit for basic application
- Compact 30 x 30 mm design
- Blue display with white writing, changeable to red display colour
- 3 pressure measuring range from -1 to 10 bar
- 1 switchable digital electrical output, PNP/NPN, NO/NC
- Intuitive menu navigation
- Pneumatic connection: G1/8, R1/8, M5, push-in connector 4mm
- Protection class IP40
- Cu, Zn, Ni-free
- Optional with electrical connection M8 cable

Frequently bought together



NEBU NEBS



Pressure sensors SPAU

- Blue-red LCD
- IP65 protection
- Pressure measuring range -1 to 16 bar
- Voltage 20 ... 30 V DC
- Switching output 2x PNP or 2x NPN selectable
- Electrical output 0.1 ... 10 V, 1 ... 5 V, 4 ... 20 mA
- Pneumatic connection G1/8, R1/8, R1/4, NPT1/8, M5, M7, push-in connector 4 mm, 6 mm, 5/32"
- Pressure switch
- Vacuum switch

IO-Link

Frequently bought together



NEBU QS NPQE



Pressure sensors SDE5

- Pressure measuring range -1 ... 10 bar
- Voltage 15 ... 30 V DC
- PNP/NPN digital output and 0...10V analogue output available
- Pressure/vacuum switches
- Switch status display by a visible LED
- Freely programmable

Frequently bought together



PUN-H



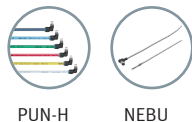


Flow sensors SFAH

- ECO function with option to switch off the display
- Serial communication integrated using IO-Link® 1.1
- Flow measuring ranges:
 - 0.002 ... 0.1 l/min
 - 0.01 ... 0.5 l/min
 - 0.02 ... 1 l/min
 - 0.1 ... 5 l/min
 - 0.2 ... 10 l/min
 - 1 ... 50 l/min
 - 2 ... 100 l/min
 - 4 ... 200 l/min
- Switching output:
 - NPN
 - PNP
 - IO-Link®
- Analogue output:
 - 0 ... 10V
 - 1 ... 5V
 - 4 ... 20mA



Frequently bought together



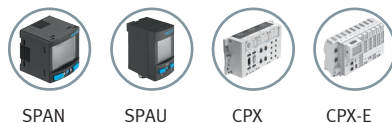
PUN-H NEBU



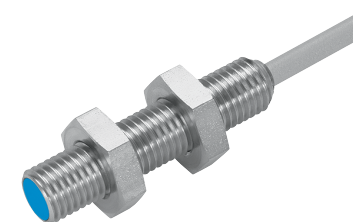
Connecting cables NEBU

- Smooth and harmonious fit and function
- Connecting cables for standard, drag chain and robot applications
- Versions with switching status display
- Welding field immune designs
- Easy-to-clean designs approved for use in the food and packaging sector
- Cable length 0.1 ... 30 m freely selectable

Frequently bought together



SPAN SPAU CPX CPX-E



Inductive sensors SIEN

- Voltage 10 ... 34V DC
- Size 4 mm, M5, 6.5 mm, M8, M12, M18, M30
- PNP, NPN
- Flush or non-flush mounting

Frequently bought together



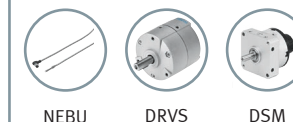
NEBU



Position sensors SRBS

- For semi-rotary drives DRVS 6 ... 40 and DSM 8, 10, 12
- Switching outputs PNP, NPN and NO, NC freely programmable
- Electrical connection: M8
- Sensing range: 0 ... 270°

Frequently bought together



NEBU

DRVS

DSM



Sensors



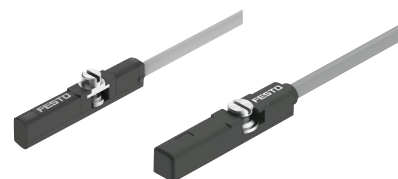
Cylinder switch SDBT-MSX

- The programmable proximity switch with auto teach-in
- Capacitive teach button
- Automatic switching point detection
- Easier and faster installation, no precision adjustment needed.
- For T-Slot pneumatic actuator
- Programmable switching output PNP, NPN and NO, NC
- IP65/68
- Electrical connection M8 or Open end
- 10.....30V DC

Frequently bought together



NEBU



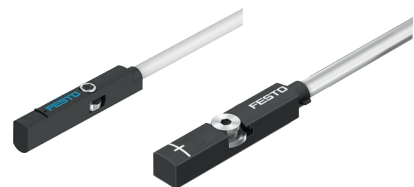
Cylinder switches SDBT-MSB / SDBC-MSB

- Basic cylinder switches with solid-state technology
- Best fit for basic application
- For T slot & C slot pneumatic actuator
- Switching outputs PNP, NPN and NO option available
- Electrical connection M8, open end cable
- 5 ... 30 V DC

Frequently bought together



NEBU



Cylinder switches SMT-8M, SMT-10M

- Cylinder switches with solid-state technology
- For T slot & C slot pneumatic actuator
- Switching outputs PNP, NPN and NO, NC option available
- Electrical connection M8, M12, open end cable
- 5 ... 30 V DC

Frequently bought together



NEBU

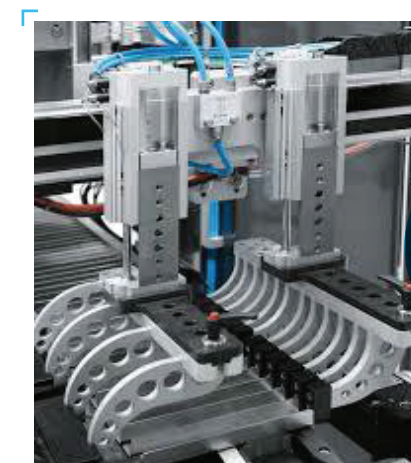


Actuators

Mini slides DGST



Lifting
application with
flexible mounting



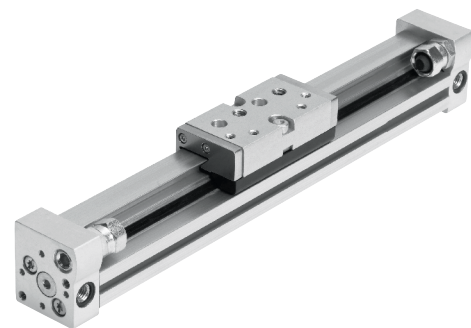
Used in
packaging line



Mini slides DGST

- Diameter: 6-25 mm
- Stroke lengths: 10-200 mm
- Force: 25 ... 589 N
- Cushioning variants:
 - Basic integrated elastic cushioning without stroke adjustment
 - Elastic polymer cushioning elements with stroke adjustment
 - Hydraulic shock absorbers with stroke adjustment

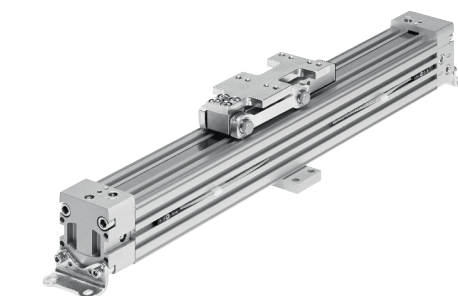
Frequently bought together



Linear drives DGC

- Guide variants:
 - Standard design
 - Plain-bearing guide
 - Recirculating ball bearing guide
- Diameter: 8, 12, 18, 25, 32, 40, 50, 63 mm
- Stroke length: 1 ... 8500 mm
- Force: 30 ... 1870 N
- Position sensing
- Various cushioning options

Frequently bought together



Linear drives DGC-K

- 1:1 interchangeable with linear drive DGP
- Compact design
- No external guide, for simple drive functions
- Diameter: 18, 25, 32, 40, 50, 63, 80 mm
- Stroke length: 1 ... 8500 mm
- Force: 153 ... 3016 N
- Position sensing

Frequently bought together



Guided drives DFM

- Diameter 6, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm
- Stroke length 5 ... 400 mm
- Force 51 ... 4712 N
- Position sensing
- Fixed/adjustable cushioning
- Plain-bearing guide
- Recirculating ball bearing guide
- Variants available

Frequently bought together



Round cylinders DSNU

- Self-adjusting end-position cushioning
- Diameter: 8, 10, 12, 16, 20, 25 mm (standard)
- Diameter: 32, 40, 50, 63 mm
- Stroke length: 1 ... 500 mm
- Force: 19 ... 1870 N
- Double-acting
- Position sensing
- Fixed/adjustable/self-adjusting cushioning
- Mounting flange

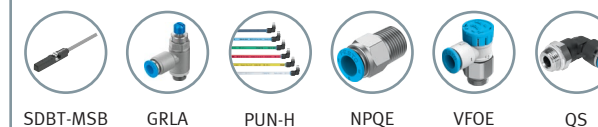
Frequently bought together



Standard cylinders DSBC

- The universal cylinder
- Standard profile with two sensor slots
- Numerous variants
- Diameter: 32, 40, 50, 63, 80, 100, 125 mm
- Stroke length: 1 ... 2800 mm
- Force: 483 ... 7363 N
- Double-acting
- Position sensing
- Fixed/adjustable/self-adjusting cushioning

Frequently bought together





Short stroke cylinder ADN-S

- Size : 6, 10, 12, 16, 20, 25, 32, 40, 50, 63mm
- Stroke length: 5, 10, 15, 20, 25, 30, 35,40, 45,50 mm
- Male and female thread
- Space and weight saving
- Double-acting and single acting
- Copper and zinc free variant available

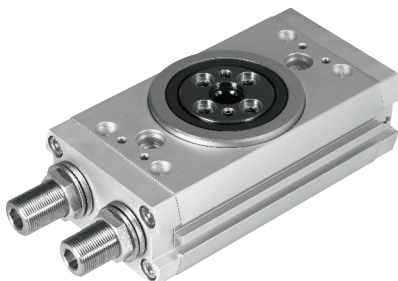
Frequently bought together



Semi-rotary drives DRVS

- Housing protected against splash water and dust
- Size: 6, 8, 12, 16, 25, 32, 40 mm
- Torque: 0.15 ... 20 Nm
- Swivel angle: 90, 180, 270°
- Position sensing
- Fixed elastic cushioning elements on both sides

Frequently bought together



Semi-rotary drives DRRD

- System product for handling and assembly technology
- Size: 8, 10, 12, 16, 20, 25, 32, 35, 40, 50, 63 mm
- Torque: 0.2 ... 112 Nm
- Swivel angle: 0 ... 180°
- Position sensing
- Cushioning: elastic (P), hydraulic shock absorbers
- Flanged shaft

Frequently bought together



Parallel grippers DHPC

- Size 6, 10, 16, 20, 25, 32, 40
- Stroke length 2 ...15 mm per gripper jaw
- Force: 3.9 ...388 N per gripper jaw
- Position sensing
- NO/ NC gripping
- Standard and flat gripper finger design

Frequently bought together



Compact cylinders ADN

- Compact cylinder
- Diameter: 12, 16, 20 ,25, 32, 40, 50, 63, 80, 100, 125 mm
- Stroke length: 1... 500 mm
- Force: 68 ... 7363 N
- Double-acting / single acting
- Position sensing
- Fixed/self-adjusting cushioning
- Numerous variants

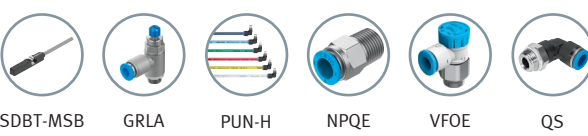
Frequently bought together

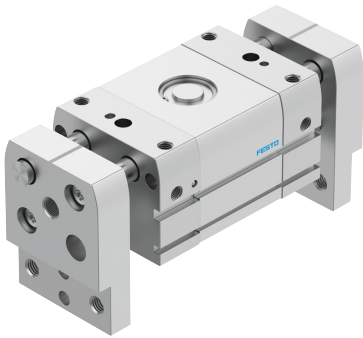


Compact round cylinders DSNU-S

- Compact round cylinder
- Diameter: 8, 12, 16, 20 ,25 mm
- Stroke length: 10 ... 200 mm
- Force: 30 ... 294 N
- Double-acting
- Position sensing
- Fixed/self-adjusting cushioning

Frequently bought together

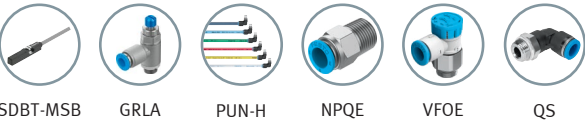




Long stroke parallel gripper DHPL

- Size 10, 16, 20, 25, 32, 40
- Stroke perjaw : 10, 15, 25, 30, 35, 40, 50, 60, 80, 100
- Gripping force : 21 ... 536 N
- Rack and pinion design
- Double acting with plain bearing guide

Frequently bought together



Valve VUVG

- Highest flow-rate in the market for M5 & G1/8
- Providing fast air delivery and efficiency

- Bigger manual override screw button with multiple accessory options

- Hassle-free with captive screws which help to reduce downtime

- Fast switching time with air-return spring

- Better visibility for improved safety

- Defined compression with built-in step

- Multiple manifold options for in-line and sub-base design options

- For areas of applications where limited mounting space is required

- Light weight & high reliability spool giving safe operation



Used in textile machine for fast speed production of button hole



Gentle placement of large metal sheets from a transport system to a stack by multiple cylinders



Individual valves VUVG

- Connection: M3, M5, M7, G1/8, G1/4
- Push-in connector: 3, 4, 6, 8, 10 mm
- Flow rate: 90 ... 1380 l/min
- Pressure range: -0.9 ... 10 bar
- Temperature range: -5 ... +60°C
- Voltage: 5, 12 24 V DC
- In-line valves, semi in-line valves, sub-base valves
- Solenoid actuated, piloted
- Pneumatic and mechanical spring return

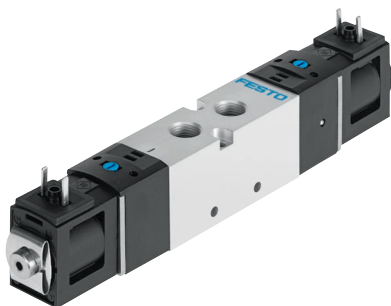
Frequently bought together



Plug-in valves VUVG

- Electrical linking via sub-base
- Port: M5, M7, G1/8, G1/4
- Push-in connector: 3, 4, 6, 8 mm
- Flow rate: 130 ... 1200 l/min
- Voltage: 24 V DC
- Semi in-line valves, sub-base valves
- Solenoid actuated, piloted
- Pneumatic and mechanical spring return

Frequently bought together



Individual valves VUVS

- Port G1/8, G1/4, G3/8
- Flow rate 500 - 2400 l/min
- Pressure range 1.5 ... 8 bar
- Temperature range -5 ... +50°C
- Voltage 12,24 VDC. 24,110, 230 VAC
- In-line valve, manifold
- Electrically actuated, piloted
- Pneumatic and mechanical spring return

Frequently bought together



Manually operated valves VHEF

- Valve function 3/2, 5/2, 5/3
- G 1/8, G 1/4 connection
- Selector switch, finger level, hand lever, toggle lever, push-button
- Directly/ Indirect actuated
- Vacuum operation possible
- Flow rate 650 - 1200 l/min

Frequently bought together

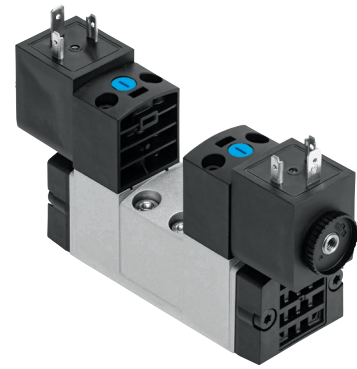


Mechanically actuated valves VMEF

- Valve function 3/2, 5/2
- G 1/8, G 1/4 connection
- Toggle lever, Roller, Stem
- Directly actuated, pneumatic piloted
- Vacuum operation possible
- Flow rate 750 - 1200 l/min

Frequently bought together





Individual valves VSVA

- Flow rate: 400 ... 1400 l/min
- Voltage: 12, 24 V DC; 24, 110 or 230 V AC
- Sub-base valve
- Solenoid actuated, piloted
- Sub-bases

Frequently bought together

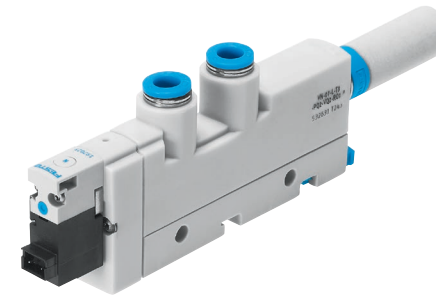


Individual valves VSNC

- All solenoid coils can be used on an armature tube
- Connection: G $\frac{1}{4}$, NPT $\frac{1}{4}$
- Flow rate: 900 ... 1000 l/min
- Voltage: 12, 24, 48 V DC; 24, 48, 120, 230 V AC
- NAMUR port pattern to VDE/VDI 3845
- Solenoid-actuated, piloted/CNOMO interface
- Mechanical spring return
- Diverse Ex solenoid systems, IEC Ex, FM EX
- Convertible from 5/2-way function to 3/2-way function



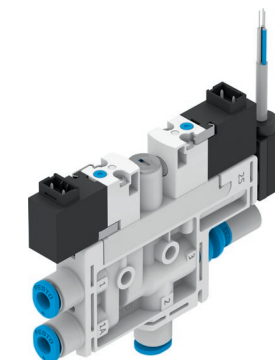
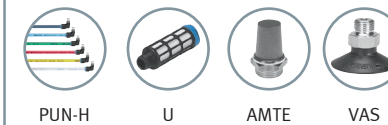
Frequently bought together



Vacuum generators VN

- Compact vacuum suction nozzle for decentralised, maintenance-free vacuum generation with more variants
- Nominal size: 0.45 to 3 mm
- Connection:
 - Plug connector QS4, QS6, QS8, QS10, QS12
 - Thread M5, G1/8, G1/4, G3/8
- Standard:
 - Vacuum port 90° to supply port
- Inline:
 - Vacuum port in line with supply port
- Solenoid valve, vacuum ON/OFF
- Pneumatic ejector pulse valve or Integrated vacuum switch.

Frequently bought together

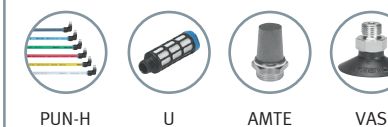


Vacuum generators OVEL

- Mounting on supply manifold with max. 8 spaces
- Nominal size: 0.45 ... 0.95 mm
- Connection:
 - Push-in connector QS3, QS4, QS6
- Vacuum solenoid valve ON/OFF
- Optional with ejector pulse
- Integrated vacuum sensor



Frequently bought together



Valve Terminal VTUG

VUVG-S

VAEM

- Variable multi-pin plug connection using Sub-D or ribbon cable
- Sub-D variant and fieldbus connection rated to IP67

CTEU



- Festo-specific I-Port interface for bus nodes
- IO-Link® mode for direct connection to a higher-order IO-Link® master



- Multiple pressure zones available
- Internal or external pilot air in the same manifold rail
- Reversible piston spool valves with up to 24 valve positions

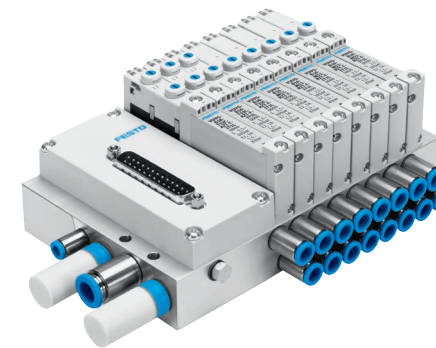
VABM



Used in hygiene zone



With IO-Link that was used in filling and packaging machine

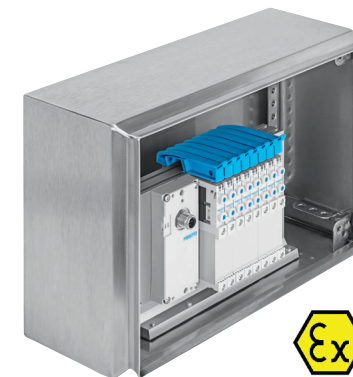


Valve terminals VTUG

- Flow rate: 220 ... 1300 l/min
- Valve size 10, 14, 18 mm
- Multi-pin, Fieldbus, IO-Link, I-Port connection
- Voltage 24 V DC
- Pressure -0.9 ... 10 bar
- Degree of protection IP40/IP67
- Semi in-line and sub-base valves
- Control-cabinet option available



Frequently bought together



Control cabinet VTUG

- Optimised, space-saving variant for installation in control cabinets
- Ready to install
- Valve size 10 & 14mm
- Multi-pin, Fieldbus, IO-Link, I-Port
- Flow rate 220 to 630 l/min
- Hot Swap function - Replace the valve during operation without depressurise valve terminal
- ATEX II 3G,3D (Zone 2/22)
- Degree of protection IP40/IP65/IP67



Frequently bought together



PUN-H

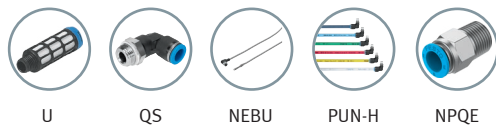




Valve terminals VTUS

- Flow rate 700 ... 2000 l/min.
- Valve size 20, 25, 30 mm
- Individual electrical connection
- Voltage 12, 24 V DC, 24, 110, 120, 230, 240 V AC
- Pressure -0.9 ... 10 bar
- Degree of protection IP65, IP67
- Inline valves
- Solenoid/Pneumatic actuated
- Metal manifold block

Frequently bought together

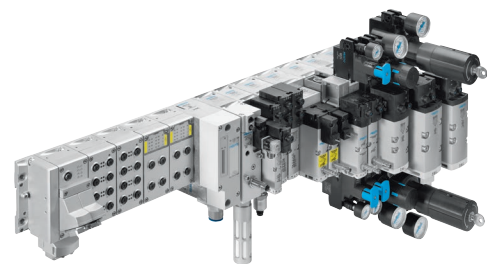


Valve terminals MPA-L

- Polymer sub base
- Valve size can be mixed and expandable
- Flow rate 360 ... 850 l/min
- Width 10, 14 and 20 mm
- Multi-pin, Fieldbus, IO-Link, I-Port connection
- Protection class IP65, IP67
- Valve functions 5/2, 5/3, 2x3/2, 2x2/2
- Ideal for control-cabinet installation



Frequently bought together

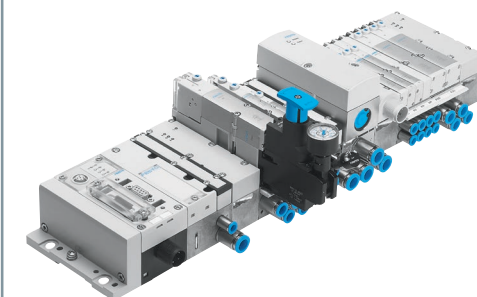
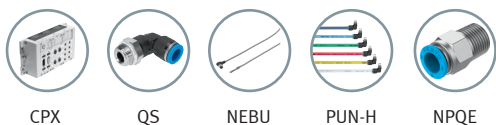


Valve terminals VTSA

- Mix of valve size for optimum flowrate
- Flow rate 770 ... 4000 l/min
- Valve size 18, 26, 42, 52, 65 mm
- Maximum 32 valves position
- Multi-pin plug, fieldbus connection
- Diagnostics function
- Protection class IP65
- Function integration with safely related pneumatic and vacuum generator



Frequently bought together

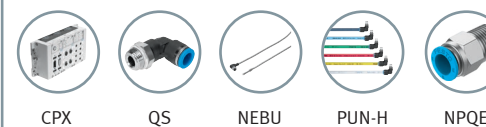


Valve terminals MPA-S

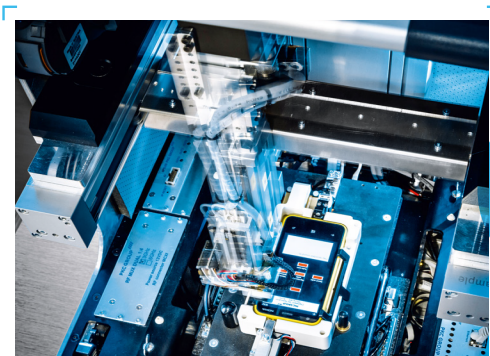
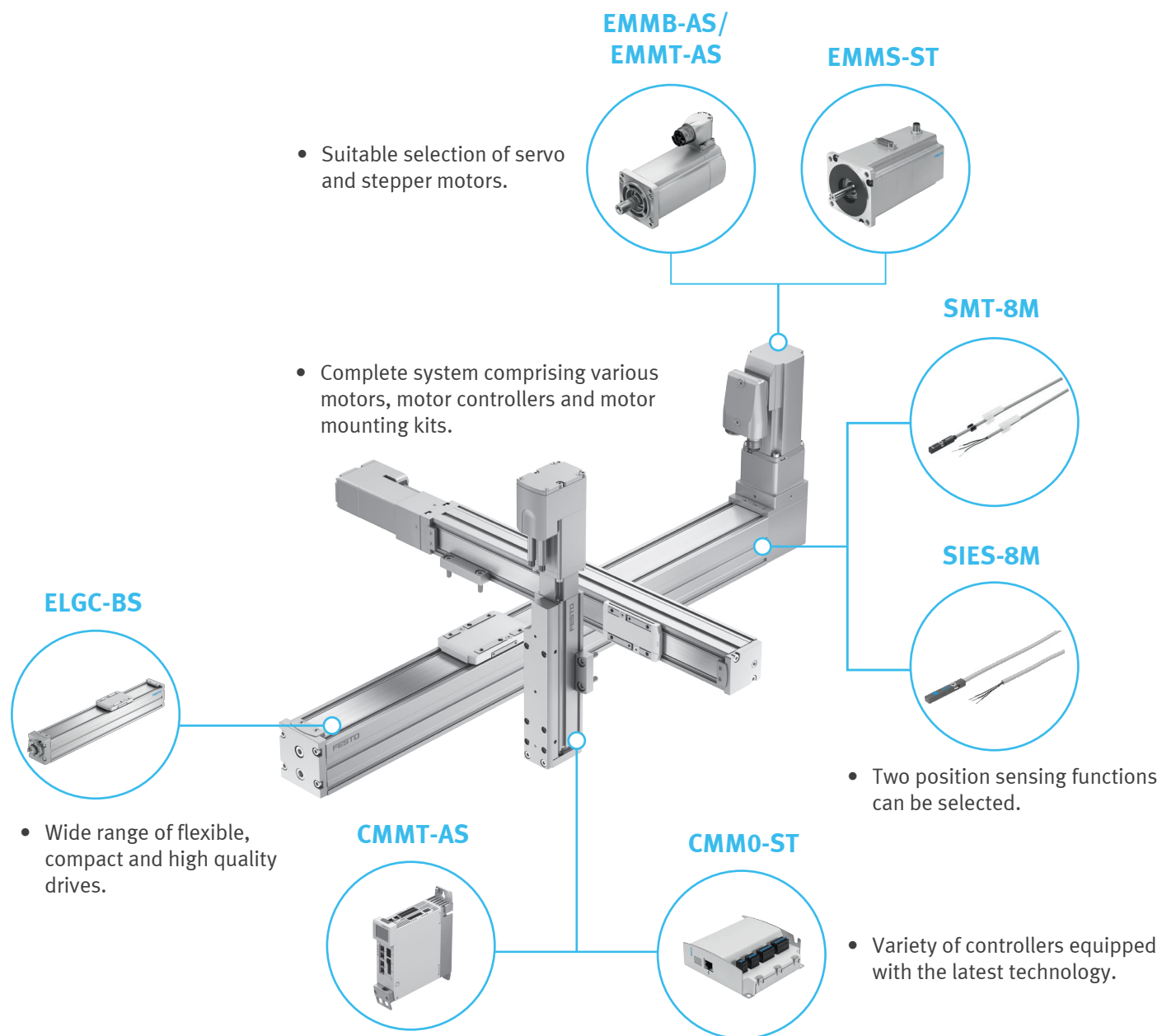
- Flow rate 360 to 700 l/min
- Valve size 10, 14, 20 mm
- Expandable up to 64 valve positions with 128 solenoid coils
- Fieldbus communication ready
- Pressure range -0.9 to 10 bar
- Protection class IP65
- Electrical remote I/O expandable by CPX electrical terminal
- Diagnostics function available
- Function integration with proportional pressure regulator VPPM



Frequently bought together

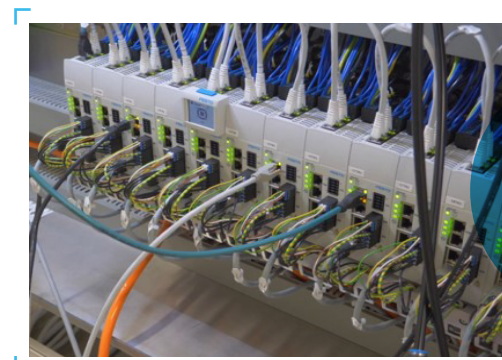
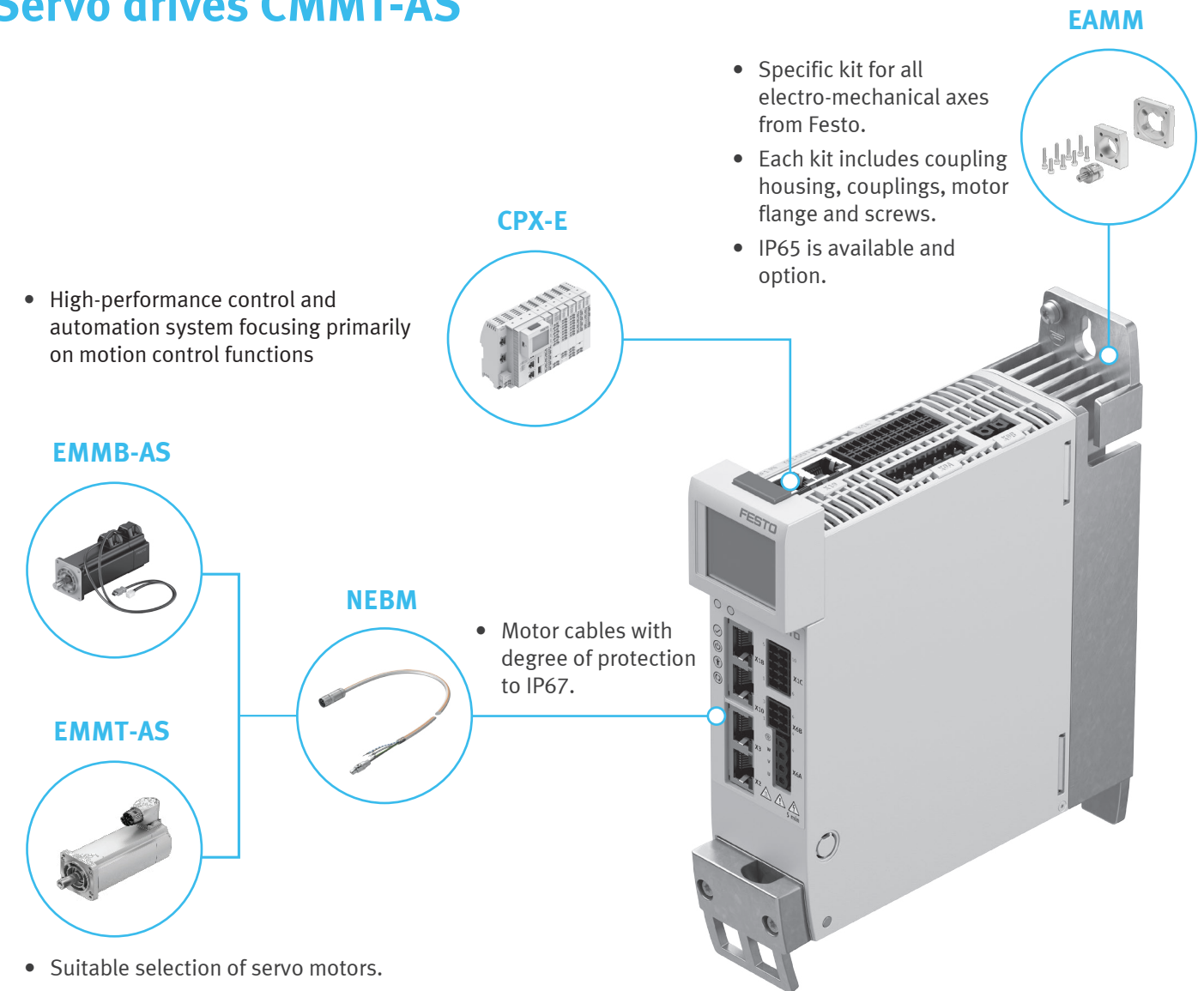


Spindle axes ELGC-BS



Compact and precise testing unit in assembly line

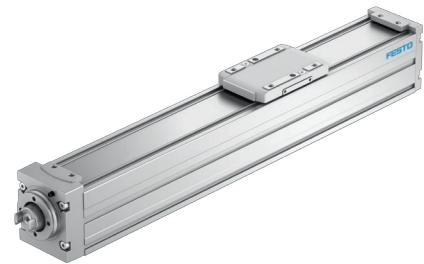
Servo drives CMMT-AS



Complete motion control in packaging line



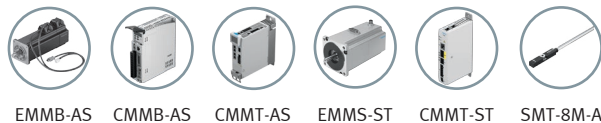
Transfer of blood samples in and out of the cold storage system



Spindle actuators ELGC-BS

- Protected Linear Ball Screw Actuator
- Size 32, 45, 60, 80
- Max. stroke length 1000 mm
- Force 110 ... 780 N
- Integrated recirculating ball bearing guide

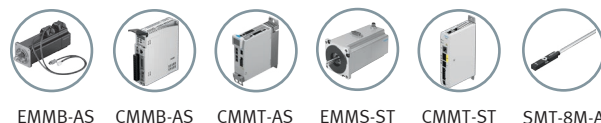
Frequently bought together



Toothed belt actuators ELGC-TB

- Protected Linear Toothed Belt Actuator
- Size 45, 60, 80
- Max. stroke length: 2000 mm
- Force 75 ... 250 N
- Integrated recirculating ball bearing guide

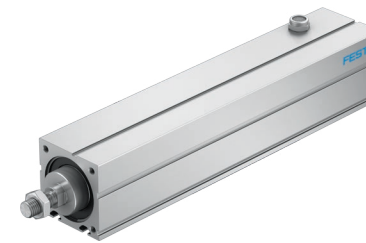
Frequently bought together



Mini slides EGSC-BS

- Guided ball screw actuator
- Size 25, 32, 45, 60
- Stroke length 25 ... 200 mm
- Integrated recirculating ball bearing guide

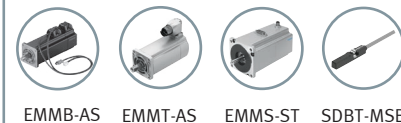
Frequently bought together



Compact electric cylinders EPCC

- Rod style ball screw actuator
- Size: 25, 32, 45 and 60
- Force: 75 ... 1000 N
- Stroke: 25 ... 500 mm
- Speed up to 0.6 m/s

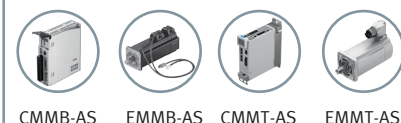
Frequently bought together



Toothed belt actuators EGC-TB

- Toothed belt actuator
- Size 50, 70, 80, 120, 185
- Stroke length 50 ... 8500 mm
- Force 50 ... 2500 N
- Speed up to 5 m/s

Frequently bought together



Electric cylinders ESBF

- Rodstyle ball screw actuator
- Feed forces of up to 17 kN
- Size: 32, 40, 50, 63, 80, 100
- Stroke length: 30 ... 1500 mm
- Force: 600 ... 17000 N
- Motor can be mounted using axial or parallel kit
- Speed up to 1.2m/s
- Optional: Electric ball screw cylinder with clean design (food application)

Frequently bought together



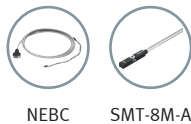


Simplified series spindle and toothed belt actuators ELGS

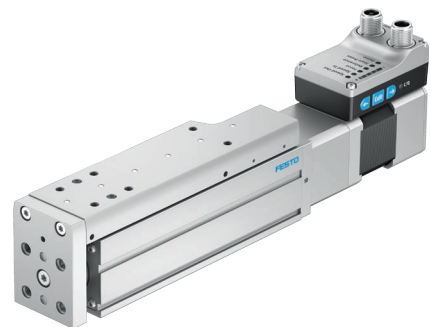
- Simplified protected ball screw and toothed belt actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- ELGS-BS
 - Size: 32, 45, 60
 - Max stroke length: 800mm
 - Speed up to 0.25 m/s
 - Force: 40 ... 200 N
- ELGS-TB
 - Size: 45, 60
 - Max stroke length: 2000mm
 - Speed up to 1.3 m/s
 - Force: 65 ... 75 N

IO-Link

Frequently bought together



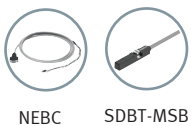
NEBC SMT-8M-A



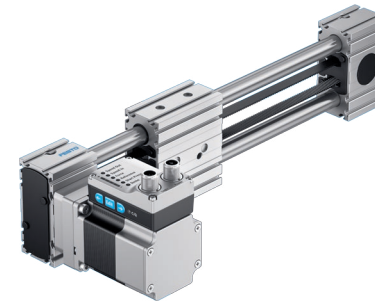
Simplified series mini slide actuators EGSS

- Simplified guided ball screw actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- Size: 32, 45, 60
- Stroke length: 25 ... 200 mm
- Force: 60 ... 250 N
- Speed up to 0.25 m/s

Frequently bought together



NEBC SDBT-MSB



Simplified series toothed belt actuators ELGE

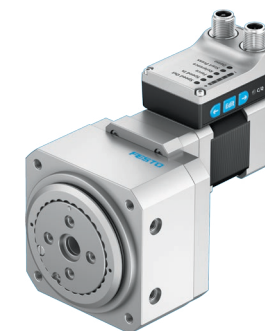
- Simplified rod guided toothed belt actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- Size: 35
- Stroke length: 50 ... 800 mm
- Force: 50 N
- Speed up to 1.2m/s

IO-Link

Frequently bought together



NEBC



Simplified series rotary actuators ERMS

- Simplified rotary actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- Size 25, 32
- Peak torque 2.7 ... 5.6 Nm
- Rotation angles 90°, 180°
- Speed up to 100 RPM

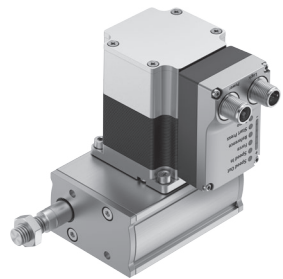
IO-Link

Frequently bought together



NEBC





Simplified series short stroke toothed belt actuators EPCE

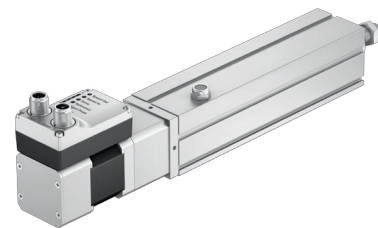
- Simplified short stroke toothed belt actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- Size 45, 60
- Stroke length 5 ... 80 mm
- Force 85 ... 150 N
- Speed up to 0.6 m/s

IO-Link

Frequently bought together



NEBC



Simplified series compact electrical cylinder actuators EPCS

- Simplified rod type ball screw actuator series for easy setup and control
- Easy control with only 2 digital inputs
- Precise closed-loop control of speed, position and force
- Size: 32, 45, 60
- Stroke length: 25 ... 500 mm
- Force: 150 ... 900 N
- Speed up to 0.22 m/s

IO-Link

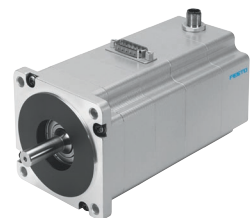
Frequently bought together



NEBC



SDBT-MSB



Stepper motors EMMS-ST

- Size 28, 42, 57, 87
- Holding torque 0.09 ... 8.6 Nm
- Voltage 24 ... 72 V DC
- Nominal current 1.4 ... 9.5 A
- Suitable motor mounting kit for all Festo actuators

Frequently bought together



CMMT-ST



CMMO-ST



Extra low voltage servo drives CMMT-ST

- Space-saving low voltage servo drive for stepper motors and brushless direct current motors (BLDC or EC motor)
- Voltage 24, 48 V DC
- Nominal current 8 A (peak 10 A)
- Power up to 300 W



Frequently bought together



EMMS-ST



AC servo drives high performance CMMT-AS

- Nominal voltage: 1 phase 230 and 3 phase 400 V AC
- Nominal current: 2.8 ... 12 A
- Nominal power: 0.35 ... 6 kW



Frequently bought together



EMMB-AS



EMMT-AS





AC servo drives economical CMMB-AS
(For use with EMMB-AS motor)

- Nominal voltage: 230 V AC
- Nominal current: 1.5 ... 7 A
- Nominal power: 100 ... 750 W

Frequently bought together



EMMB-AS



AC servo motors high performance EMMT-AS

- Simple connection technology (OCP: one cable plug)
- Single-turn and Multi-turn (battery-less) EnDat 2.2 encoder technology
- Size 60 ... 190
- Nominal torque 0.6 ... 82.4 Nm
- Voltage 325 ... 680 V DC
- Nominal current 1.4 ... 20 A

Frequently bought together



CMMT-AS



AC servo motors economical EMMB-AS

- Size 40, 60, 80
- Rated torque 0.32 ... 2.39 Nm
- Nominal current 1.4 ... 3.8 A
- Brake and Keyway option
- Single-turn/Multi-turn encoder options

Frequently bought together



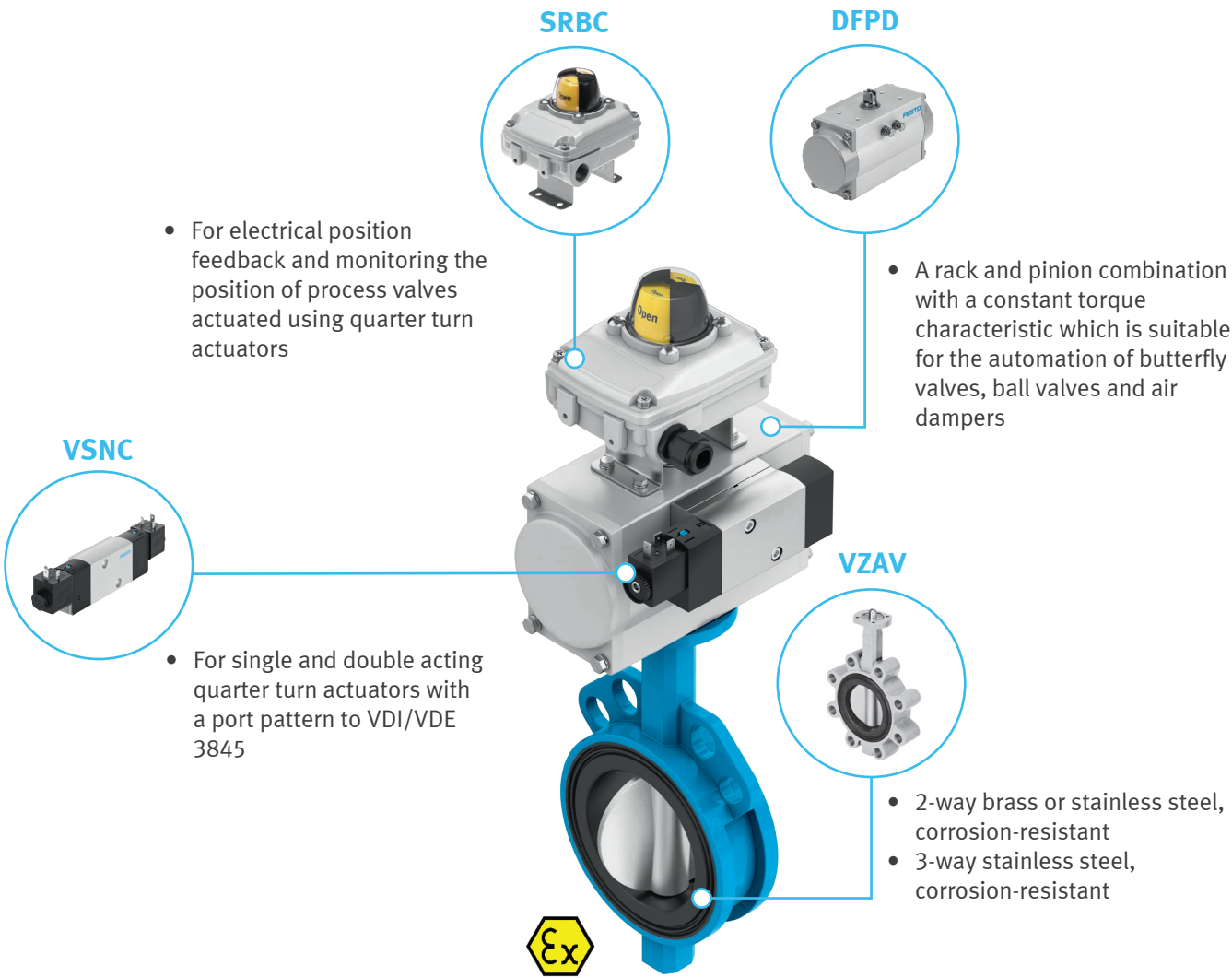
CMMT-AS



EMMB-AS



Butterfly valve unit KVZA



Used in explosive environment



Used in the production of honey



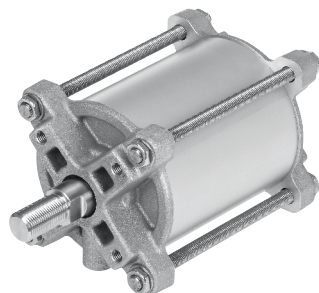
Quarter turn actuators DFPD

- With rack and pinion gear unit
- Size: 10 ... 2300
- Torque: 10 ... 2300 Nm
- Swivel angle: 0 ... 90°, 0 ... 180°
- Flange hole pattern to ISO 5211
- NAMUR connection pattern for solenoid valves/sensor boxes to VDI/VDE 3845
- Up to SIL3 low demand mode
- ATEX II 2GD c105°C (T4)X



SIL certified
according IEC 61508

Frequently bought together



Linear actuators DFPC

- Optimised for process valves
- Diameter: 80, 100, 125, 160, 200, 250, 300 mm
- Stroke length: 40 ... 1600 mm
- Double-acting
- Mounting interface: ISO 5210, ISO 15552
- Option: Position sensor
- Fixed cushioning at both ends
- ATEX Declaration



Frequently bought together



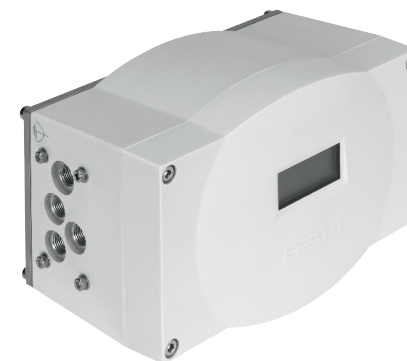
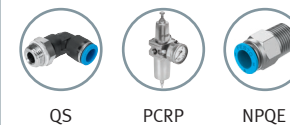
Positioners CMSH

- Intelligent positioner for double/single-acting quarter-turn actuator or linear
- Namur connection interface (VDI/VDE 3845-1 or VDI/VDE 3847-2)
- HART interface
- 4-20mA loop-powered, 2-wire
- Aluminium, powder-coated housing
- IP66, IP67 protection
- Swapable manifold block for double/single acting function
- Self monitoring and diagnostics option
- Partial-stroke test
- Option for pressure gauge connection
- Pressure range 1.4-8 bar
- Operating temperature -40 ... 80°C
- Rotation angle 0 ... 115°



SIL certified
according IEC 61508

Frequently bought together



Positioners CMSX

- Positioner for double/single-acting quarter-turn actuator or linear
- Namur connection interface (VDI/VDE 3845)
- Configurable characteristic curves: Linear/Equal percentage/User free
- Polycarbonate housing
- Configurable set-point signal 0-10V/0-20mA/4-20mA
- 24VDC operating voltage
- IP65 protection
- Analogue feedback signal 4-20mA
- Configurable emergency input signal: Open/Close/Hold
- Pressure range 3-8 bar
- Operating temperature -5 ... 60°C
- Rotation angle 0 ... 110°
- Repetition accuracy $\pm 1\%$



Frequently bought together





Sensor boxes SRBC

- Measuring principle electromechanical magnetic reed or inductive
- Switching element function Toggle switch, single-pole (SPDT)
- For DC and AC
- Pre-fitted mounting bridge
- Cable connector and blanking plug included in the scope of delivery
- IP67, NEMA 4/4X protection
- ATEX II 2GD: Ex-ia-NAMUR version
- SIL2 according to IEC61508



SIL certified
according IEC 61508

Frequently bought together



DFPD



Sensor boxes SRBG

- Inductive measurement principle with dual sensor
- Switching component function N/O contact, in the case of AS-Interface switchable N/C-N/O contact
- Operating voltage 6 ... 60 V DC
- Direct mounting on quarter turn actuators to VDI/VDE 3845

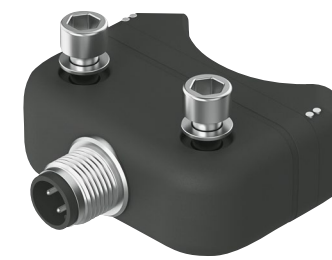


SIL certified
according IEC 61508

Frequently bought together



SASF



Sensor boxes SRBI

- Compact limit switch box designed for small actuator sizes
- Inductive measurement principle with dual sensor
- PNP switching output
- Operating voltage 10 ... 30 V DC
- Direct mounting on quarter turn actuators to VDI/VDE 3845

Frequently bought together



SASF



Visual indicators SASF

- For mounting on drive shafts of standard actuators in accordance with VDI/VDE 3845
- Four fixed actuating lugs at intervals of 90°
- For clockwise and anti-clockwise rotating actuators with 90° and 180° rotation

Frequently bought together



SRBG



NEBU



SIL certified
according IEC 61508

Angle seat valves VZXA

- Port DN 13, 1/2"; DN20, 3/4"; DN25, 1"; DN32, 1 1/4"; DN40, 1 1/2"; DN50, 2"; DN65, 2 1/2"
- G-thread to DIN ISO 228-1 or NPT-thread to ANSI/ASME B 1.20.1 or Rc-thread to DIN 10226-2
- Medium pressure 0 ... 30 bar
- Valve function 2/2, Normally Closed, Normally Open, Double Acting
- ATEX-approval
- Use with slightly contaminated media, up to 600mm²/s viscosity
- Use for steam applications possible
- Available with 3/2 banjo valve options

Frequently bought together



SIEN



VOFX



SDBT-MSB



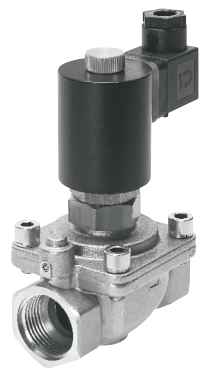
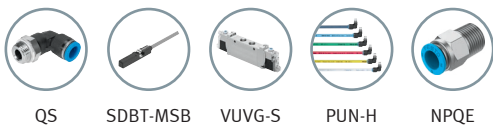


Pinch valves VZQA

- 2/2 way function
- Normally open/closed versions
- Connection 1/4", 1/2", 1"
- G or NPT thread or clamp versions available
- Pressure range: 0 ... 6 bar
- Pneumatic actuation
- 2/2 way pinch valve
- Aluminium or stainless steel housing (Clean Design)
- Sealing material EPDM, NBR, silicone
- For controlling fluid/powder media, solids, and material mixtures up to viscosity level of 4000 mm²/s
- Suitable for use with closing application



Frequently bought together



Solenoid valves VZWF

- Port 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"
- G-thread or NPT threads
- Operating pressure: 0 ... 10 bar
- Nominal pressure: 40 bar
- Electrical actuation
- Voltage: 24 V DC, 110 V AC, 230 V AC
- 2/2 way diaphragm valve (N/C), force pilot operated
- Sealing material NBR, EPDM, FKM
- Appropriate for closed applications such as cooling or filling systems

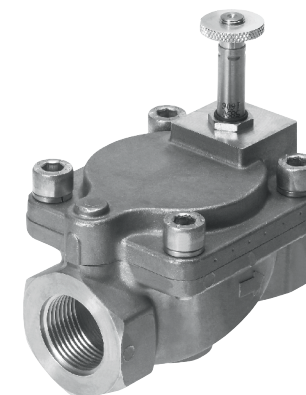


Solenoid valves VZWD



- 2/2 way valve
- Port: 1/8", 1/4"
- G threads or NPT threads
- Operating pressure: 0 ... 90 bar
- Nominal pressure: 40 bar
- Electrical actuation
- Voltage 24 V DC, 110 V AC, 230 V AC
- 2/2 way poppet valve (NC), directly actuated
- FPM sealing material
- Suitable for high-pressure applications with low flow rates
- Available in brass or stainless steel versions
- Medium temperature -10 ... 80°C
- Flow rate 0.06 ... 0.16 m³/h

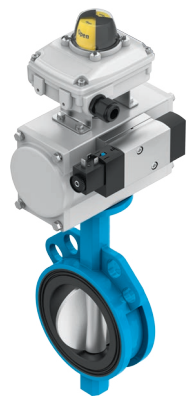
Frequently bought together



Solenoid valves VZWM

- 2/2 way valve
- Connection G1/4 ... G2, also available with NPT thread
- Flow rate: 1400 to 31000 l/min or 1.6 ... 39 m³/h
- Cable connection
- Solenoid actuated, piloted, pneumatic spring return
- For control of gaseous and liquid media
- NBR sealing material
- Available in brass or stainless steel versions
- Varied range of coils available
- Medium temperature: -10 ... 60°C
- Operating pressure: 0.5 ... 10 bar





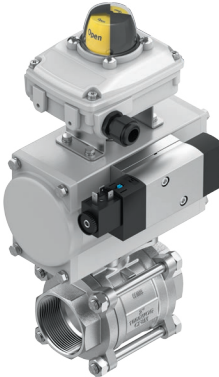
Butterfly valve assembly units KVZA

- Connection type: Wafer, Lug
- Connection standard: PN10, PN16, ANSI #150
- Sizes: DN25, 32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300
- Disc material: Ductile iron (Polyamide coated), St. 14408, St 1.4408 (PFA coated)
- Seat material: EPDM, EPDM high temperature, NBR, PTFE/Silicone



SIL certified
according IEC 61508

Frequently bought together

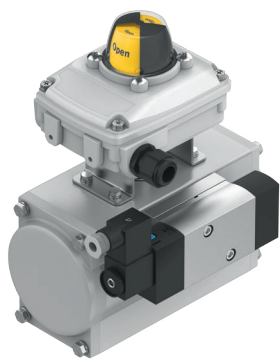


Ball valve assembly units KVZB

- Connection type: Flange, Threaded, Clamp, Welded end
- Sizes: 1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6", 8"
- Operating pressure up to 63 bar
- Valve design: 2/2 way, 3/2 way
- Body material: Brass, Stainless steel



SIL certified
according IEC 61508



Actuator assembly units KDFP

- Torque range: 1 ... 3248 Nm
- Actuator type: Double acting, Single acting
- Flange size: F03 ... F16
- Shaft size: WAF8 ... WAF46
- Operating pressure: 2 ... 8 bar



SIL certified
according IEC 61508

Frequently bought together



Stainless steel filter regulators PCR

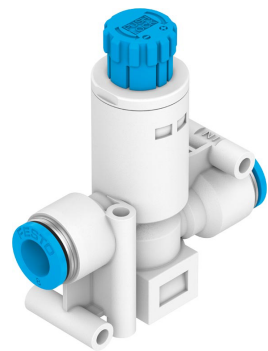
- Robust housing for the specific requirements of the PA industry
- Suitable for use outdoors and at temperatures down to - 60°
- Resistant to UV radiation and corrosive environments
- Port G 1/8, G 1/4, NPT 1/4, NPT 1/2
- Pressure 0.5 ... 7 bar, 0.5 ... 12 bar
- Flow rate 1600 ... 6440 L/min
- Manual drain
- Stainless steel filter cartridge



Frequently bought together



Air Preparation



Pressure regulator VRPA

- In line with /without pressure gauge
- L-shape with pressure gauge
- Connection: QS4, QS6, QS8, M5, R1/4, R1/2
- Flow rate: 80 ... 130 l/min
- Pressure range: 1 ... 8 bar

Frequently bought together



PUN-H



Air preparation MS2-B

- Regulator, filter regulator
- Connection: QS6, M5
- Flow rate: 140 ... 350 l/min
- Pressure range: 0.5... 7 bar
- Temperature range: -5... +50°C
- Filtration grade: 5 um

Frequently bought together



QS



PUN-H



NPQE



Air preparation MS4

- Connection: G1/8, G1/4, G3/8
- Flow rate: 900 ... 2200 l/min
- Pressure range: 0.5.. 12 bar
- Temperature range: -10... +60°C
- Filtration grade: 5, 40 um

Frequently bought together



QS



PUN-H



NPQE



Air Preparation



Air preparation MS4-B

- Regulator, filter regulator, manual on/off valve, electrical on/off valve
- Connection: G1/4
- Flow rate: 1200 ... 1400 l/min
- Pressure range: 0.5 ... 10 bar
- Temperature range: -5 ... +50°C
- Filtration grade: 5, 40 um

Frequently bought together



QS



PUN-H



NPQE



Air preparation MS6

- Connection: G1/4, G3/8, G1/2, G3/4
- Flow rate: 2500 ... 8700 l/min
- Pressure range: 0.5 ... 12 bar
- Temperature range: -10 ... +60°C
- Filtration grade: 5, 40 um

Frequently bought together



QS



PUN-H



NPQE



Air preparation MS6-B

- Regulator, filter regulator, manual on/off valve, electrical on/off valve
- Connection: G1/2
- Flow rate: 1500 ... 5800 l/min
- Pressure range: 0.5 ... 10 bar
- Temperature range: -5 ... +50°C
- Filtration grade: 5, 40 um

Frequently bought together



QS



PUN-H

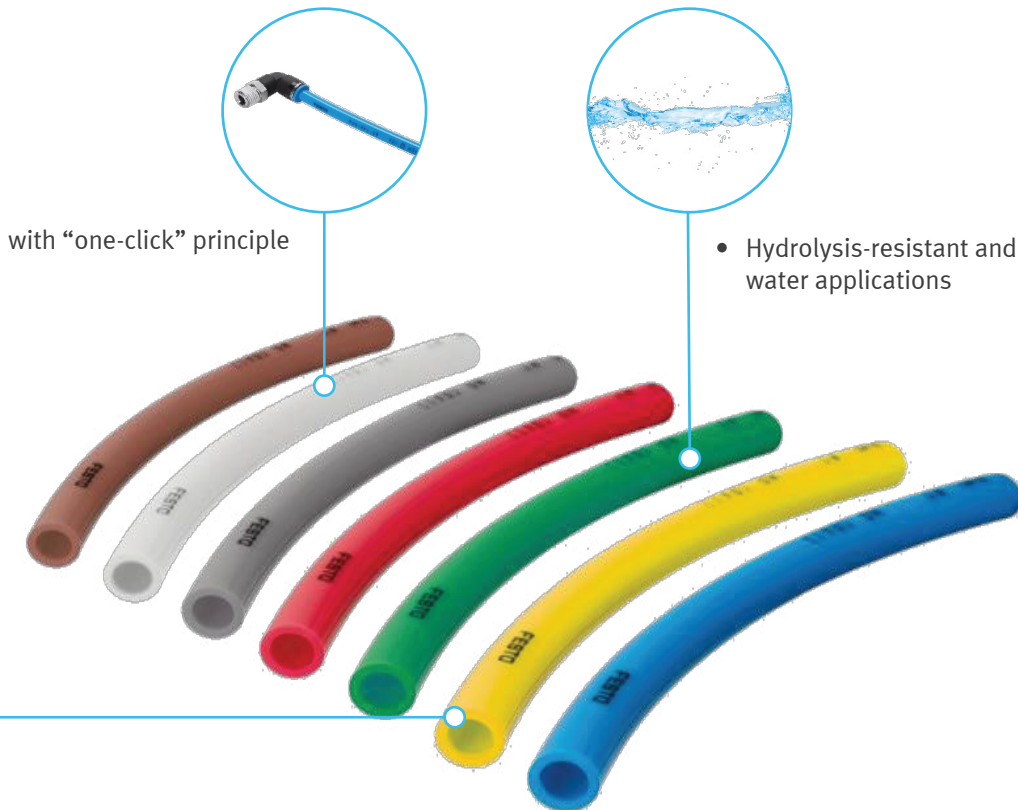


NPQE



Polyurethane tubings PUN-H

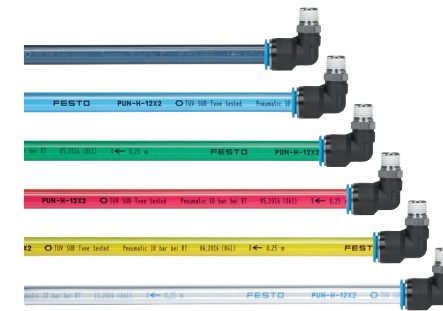
- Easy installation with “one-click” principle
- Hydrolysis-resistant and suitable for water applications
- Suitable for use in clean rooms, FDA compliant and corrosion-resistant




Flexible and durable use in control cabinet



Used in process industry in harsh environment



Polyurethane tubings PUN-H

- Large selection of variants
- Highly resistant to stress cracks, microbes and hydrolysis
- Outside diameter: 3 ... 16 mm
- Internal diameter: 2.1 ... 11 mm
- Temperature-dependent operating pressure: -0.95 ... 10 bar
- Ambient temperature: -35 ... 60° C
- Operating medium:
 - Compressed air
 - Vacuum
 - Water

Frequently bought together



Push-in fittings QS

- Wide designs & variations
- Mini-series port: M3, M5, M7, M 6x0.75, M 8x0.75, R1/8, G1/8
- Standard-series port: R1/8, R1/4, R1/2, R3/8, G1/8, G1/4, G1/2, G3/8, G3/4
- OD Tubing: 2, 3, 4, 6, 8, 10, 12, 16, 22 mm
- Threaded connection: Rc, NPT, G
- Suitable for vacuum



Frequently bought together



Accessories



Flow control valves GRLA/Z-D

- Connection: M3, M5, G 1/8, G 1/4, G 3/8, G 1/2, also available with NPT thread
- Plug connector: 3, 4, 6, 8, 10, 12 mm
- Flow rate: 0 ... 1,400 l/min
- Non-return and flow control valve

Frequently bought together



PUN-H



Pilot check valves HGL

- Manually actuated venting with separate accessories possible
- Port: M5, G1/8, G1/4, G3/8, G1/2
- Flow rate: 130 ... 1600 l/min
- Shut-off valve
- Pneumatic piloted non-return valve

Frequently bought together



PUN-H



Quick couplings sockets KD

- Connection: M3, M5, G 1/8, G 1/4, G 3/8, G 1/2
- Diameter: 2, 3, 4, 6, 9, 13 mm
- Threaded connection:
 - Metric thread with sealing ring
 - G thread with sealing ring
- Shut-off on one side
- Shut-off on both sides
- Safety coupling to ISO 4414

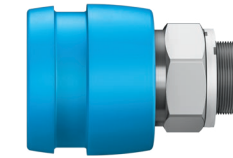
Frequently bought together



PUN-H



Accessories



Safety couplings NPHS-D6/S6

- AG connection: G 1/8, G 1/4, G 3/8, G 1/2
- IG connection: G 1/4, G 3/8, G 1/2
- Barbed connector: N9
- Optional 3/2-way hand slide valve
- Certified by IFA (Institute for Occupational Safety and Health)

Frequently bought together



PUN-H



Silencers AMTE

- High-temperature resistance up to 80°C
- Slim width
- Wide choice of variants
- Universal use
- Metal variant
- Connecting threads M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1, UNF10-32, NPT1/8-27, NPT1/4-18, NPT3/8-18, NPT1/2-14
- Sound pressure level: 71 ... 95 dB(A)



Silencers U

- Threaded connection: M5, G1/2, G1/4, G1/8, G3/8, G3/4, G1
- Barbed connector connection: PK-3, PK-4
- Noise level: 65 ... 84 dB(A)



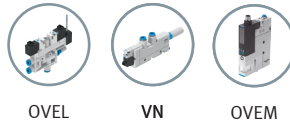
Accessories



Suction cups VAS

- Suction cup size diameter 1 to 125 mm
- Connection:
 - Male thread
- Round suction cup:
 - Standard
 - Bellows, 1.5 convolutions

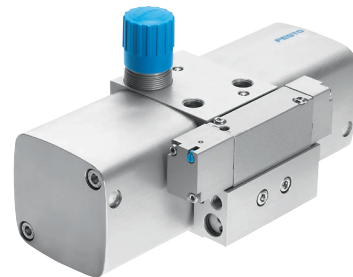
Frequently bought together



Compressed air reservoirs CRVZS

- Volume: 0.1 ... 20 l
- Material: High-alloy stainless steel
- Equivalent to AD 2000

Frequently bought together



Pressure boosters DPA

- Twin-piston pressure booster
- Pressure ratio: 1:2
- Pneumatic port: G1/4, G3/8, G1/2
- Supply pressure: 2 ... 10 bar
- Output pressure: 4 ... 16 bar
- Flow rate: 300 ... 3000 NI/min
- Ambient temperature: +5 ... +60°C

Frequently bought together



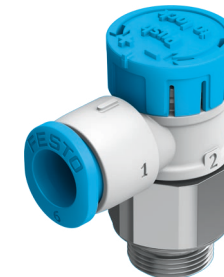
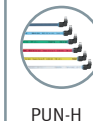
Accessories



Push-in fittings NPQE

- Wide designs & variations
- Standard thread :M3, M5, M7, R1/8, R1/4, R3/8, R1/2
- OD Tubing: 3, 4, 6, 8, 10, 12, 14, 16 mm
- Threaded connection: R thread

Frequently bought together



Flow control valves VFOE

- Connection : M5,M7, R1/8, R1/4, R 3/8, R 1/2, G 1/8, G 1/4, G 3/8, G 1/2
- Plug connector 4, 6, 8, 10, 12 mm
- Flow rate 0 ... 1300 l/min
- Non-return, throttle in and throttle out function

Frequently bought together



Industry segments

- Targeted Industry Segments
- Possible Industry Segments



Pg 07	Terminal CPX	○	●	●	●	●	○
Pg 07	PLC/Motion/Robotic Controller CPX-E	●	●	●	●	●	●
Pg 08	Remote I/O system CPX-E	●	●	●	●	●	●
Pg 08	Distributed Remote I/O system CPX-AP-I	●	●	●	●	●	●
Pg 10	Pressure sensors SPAN	●	●	●	○	●	○
Pg 10	Pressure sensors SPAN-B	●	●	●	●	●	○
Pg 10	Pressure sensors SPAU	●	●	●	○	●	○
Pg 11	Pressure sensors SDE5	●	●	○	○	●	○
Pg 11	Flow sensors SFAH	●	●	●	○	●	○
Pg 11	Connecting cables NEBU	●	●	●	●	●	○
Pg 12	Inductive sensors SIEN	●	●	●	○	●	○
Pg 12	Position sensors SRBS	●	○	●	○	○	○
Pg 13	Cylinder switch SDBT-MSX	●	●	●	●	●	○
Pg 13	Cylinder switches SDBT-MSB / SDBC-MSB	●	●	●	●	●	○
Pg 13	Cylinder switches SMT-8M, SMT-10M	●	●	●	●	●	○
Pg 15	Mini slides DGST	●	○	●	○	●	○
Pg 15	Linear drives DGC	●	○	●	○	●	○
Pg 15	Linear drives DGC-K	●	○	●	○	●	○
Pg 16	Guided drives DFM	●	○	●	○	●	○
Pg 16	Round cylinders DSNU	●	●	●	○	●	○
Pg 16	Standard cylinders DSBC	●	●	●	●	●	○
Pg 17	Short stroke cylinders ADN-S	●	○	●	○	○	○
Pg 17	Semi-rotary drives DRVS	●	○	○	○	●	○
Pg 17	Semi-rotary drives DRRD	●	○	○	○	●	○

Industry segments

- Targeted Industry Segments
- Possible Industry Segments



Pg 18	Compact cylinders ADN	●	●	●	○	●	●
Pg 18	Parallel grippers DHPC	●	○	●	○	●	●
Pg 18	Compact round cylinders DSNU-S	●	●	●	○	●	●
Pg 19	Long stroke parallel gripper DHPL	○	●	●	○	●	○
Pg 21	Individual valves VUVG	●	○	○	●	●	○
Pg 21	Plug-in valves VUVG	●	○	○	●	●	○
Pg 21	Individual valves VUVS	○	●	●	●	●	○
Pg 21	Individual valves VSVA	○	●	●	●	○	○
Pg 22	Individual valves VSNC	○	○	●	●	●	○
Pg 22	Vacuum generators VN	●	●	●	○	●	●
Pg 22	Vacuum generators OVEL	●	●	●	○	●	●
Pg 23	Manually operated valves VHEF	●	●	●	○	●	○
Pg 23	Mechanically actuated valves VMEF	●	●	●	○	●	○
Pg 24	Individual valves VUVG-S	●	○	○	●	●	○
Pg 24	Individual valves VUVS-S	○	●	●	●	●	○
Pg 26	Valve terminals VTUG	●	○	○	●	●	○
Pg 26	Control cabinet VTUG	●	●	●	●	●	○
Pg 27	Valve terminals VTUS	○	○	●	●	●	○
Pg 27	Valve Terminals VTSA	○	●	●	●	●	○
Pg 28	Valve Terminals MPA-L	○	●	●	●	●	○
Pg 28	Valve Terminals MPA-S	○	●	●	●	●	○
Pg 31	Spindle actuators ELGC-BS	●	●	●	○	●	●
Pg 31	Toothed belt actuators ELGC-TB	●	●	●	○	●	●
Pg 31	Mini slides EGSC-BS	●	●	●	○	●	●

Industry segments

- Targeted Industry Segments
- Possible Industry Segments



Pg 32	Compact electric cylinders EPCC	●	●	●	○	●	●
Pg 32	Toothed belt actutators EGC-TB	●	●	●	○	●	○
Pg 32	Electric cylinders ESBF	●	●	●	○	●	●
Pg 33	Simplified series spindle and toothed belt actuators ELGS	●	●	●	○	●	●
Pg 33	Simplified series mini slide actuators EGSS	●	●	●	○	●	●
Pg 34	Simplified series toothed belt actuators ELGE	●	●	●	○	●	●
Pg 34	Simplified series rotary actuators ERMS	●	○	●	○	●	●
Pg 34	Extra low voltage servo drives CMMT-ST	●	●	●	○	●	●
Pg 35	AC servo drives high performance CMMT-AS	●	●	●	○	●	●
Pg 35	AC servo drives economical CMMB-AS (For use with EMMB-AS motor)	●	●	●	○	●	●
Pg 35	Stepper motors EMMS-ST	●	●	●	○	●	●
Pg 36	AC servo motors economical EMMB-AS	●	●	●	○	●	●
Pg 36	AC servo motors high performance EMMT-AS	●	●	●	○	●	●
Pg 36	Simplified series short stroke toothed belt actuators EPCE	●	●	●	○	●	●
Pg 37	Simplified series compact electrical cylinder actuators EPCS	●	●	●	○	●	●
Pg 39	Quarter turn actuators DFPD	○	○	●	●	●	○
Pg 39	Sensor boxes SRBC	○	○	●	●	●	○
Pg 39	Positioners CMSX	○	○	●	●	●	○
Pg 40	Visual indicators SASF	○	○	●	●	●	○
Pg 40	Sensor boxes SRBG	○	○	●	●	●	○
Pg 40	Linear actuators DFPC	○	○	●	●	●	○
Pg 41	Angle seat valves VZXA	○	○	●	●	●	○
Pg 41	Solenoid alves VZWD	○	○	○	●	●	○
Pg 42	Solenoid valves VZWM	○	○	○	●	●	○

Industry segments

- Targeted Industry Segments
- Possible Industry Segments



Pg 42	Solenoid valves VZWF	○	○	○	●	●	○
Pg 42	Pinch valves VZQA	●	○	●	●	●	○
Pg 43	Butterfly valve assembly units KVZA	○	○	●	●	●	○
Pg 43	Ball valve assembly units KVZB	○	○	●	●	●	○
Pg 43	Actuator assembly units KDFF	○	○	●	●	●	○
Pg 44	Stainless steel filter regulators PCRP	○	○	●	●	○	○
Pg 44	Positioners CMSH	●	○	○	●	●	○
Pg 45	Sensor boxes SRBI	●	○	○	●	●	○
Pg 46	Air preparation MS2/4/6	●	●	●	●	●	●
Pg 46	Air preparation MS2-B	●	●	●	○	●	●
Pg 46	Air preparation MS4	●	●	●	○	●	●
Pg 47	Air preparation MS4-B	●	○	●	○	●	●
Pg 47	Air preparation MS6	●	●	●	○	●	●
Pg 47	Air preparation MS6-B	●	○	●	○	●	●
Pg 48	Pressure regulator VRPA	●	○	●	○	●	●
Pg 50	Polyurethane tubings PUN-H	●	●	●	●	●	●
Pg 50	Push-in fittings QS	●	●	●	●	●	○
Pg 50	Flow control valves GRLA/Z-D	●	●	●	●	●	○
Pg 51	Piloted check valves HGL	●	●	●	○	●	○
Pg 51	Quick couplings sockets KD	●	●	●	○	○	○
Pg 51	Safety couplings NPHS-D6/S6	●	●	●	○	○	○
Pg 52	Silencers AMTE	●	●	●	●	●	●
Pg 52	Silencers U	●	●	●	●	●	●
Pg 52	Suction cups VAS	●	●	●	○	●	○

- Targeted Industry Segments
- Possible Industry Segments



Pg 53	Compressed air reservoirs CRVZS	●	○	●	●	●	○
Pg 53	Pressure boosters DPA	●	○	●	○	●	○
Pg 53	Push-in fittings NPQE	●	●	●	●	●	●
Pg 53	Flow control valves VFOE	●	○	●	○	●	●

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