

Southeast Asia Selected Products

FESTO

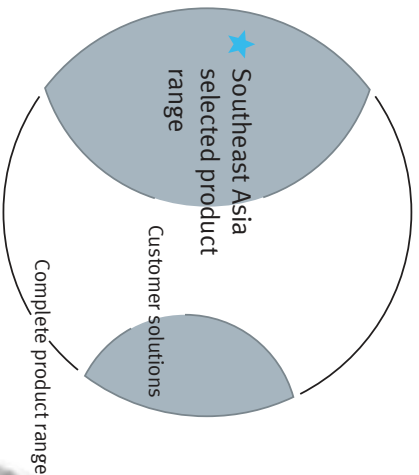
2022



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



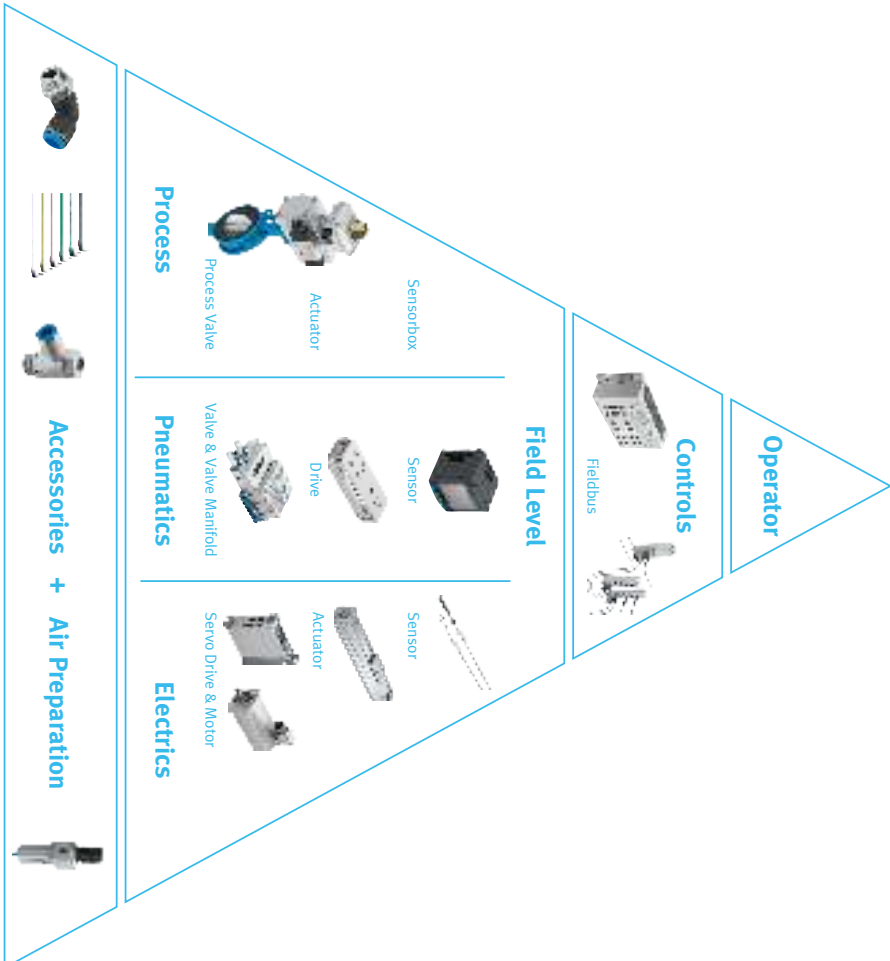
Your world of automation starts here

- Page 06 Controls
- Page 09 Sensors
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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.





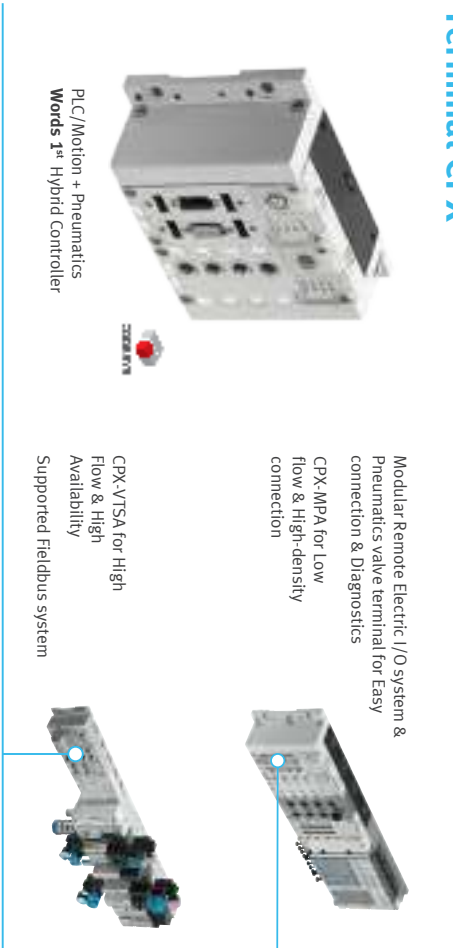
Ready for dispatch from the Festo factory in 24 hours



Ready for dispatch from the Festo factory in 5 days or less

CONTROLS		SENSORS		ACTUATORS		VALVES		ELECTRICS		PROCESS		AIR PREPARATION		ACCESSORIES	
CPX-AR1 Pg. 08	Remote I/O CPX-E Pg. 08	NEBU Pg. 12	SDES Pg. 11	SFAH Pg. 12	SIEN Pg. 13	SRBS Pg. 13	CPX Pg. 07	CPX-E Pg. 07							
SDBT-MSB / SDBC-MSB Pg. 14	SDBT-MSX Pg. 14	SMT-8MI, SMT-10MI Pg. 14	SPAN Pg. 10	SPAN-B Pg. 10	SPAU Pg. 11										
ADN Pg. 19	ADN-S Pg. 17	DFM Pg. 17	DCST Pg. 16	DHPC Pg. 19	DHPL Pg. 20	DGC Pg. 16	DGC-K Pg. 16								
DRRD Pg. 18	DRYS Pg. 18	DSBC Pg. 16	DSNU Pg. 16	DSNUS Pg. 19											
OVEL Pg. 25	VHEF Pg. 23	VMEF Pg. 23	VN Pg. 25	VSNC Pg. 24	VSVA Pg. 24	MPA-L Pg. 29	MPA-S Pg. 29	VISA Pg. 28	VTUG Pg. 27	Control Cabinet-VTUG Pg. 27	VTUS Pg. 28				
VUUG Pg. 22	VUUG-S Pg. 24	VUUS Pg. 22	VUUS-S Pg. 24			VUUG Pg. 22									
CMMBAS Pg. 38	CMMT-AS Pg. 37	EMMBAS Pg. 38	EMMT-AS Pg. 38	CMMT-ST Pg. 37	EMMS-ST Pg. 36	EGSS Pg. 34	ELGE Pg. 35	ELGS Pg. 34	EPCC Pg. 33	EPCE Pg. 36	EPCS Pg. 36				
EGC-TB Pg. 33	ELGC-TB Pg. 32	EGSC-BS Pg. 32	ELGC-BS Pg. 32			ERMS Pg. 35	ESBF Pg. 33								
CMSH Pg. 41	CMSX Pg. 41	DFPC Pg. 40	DFPD Pg. 40	SASF Pg. 43	SRBC Pg. 32	KDPP Pg. 43	KZVA Pg. 43	KZVB Pg. 43	PCRP Pg. 44						
SRRG Pg. 42	SRR1 Pg. 43	VZQA Pg. 44	VZMD Pg. 45	VZNF Pg. 44	VZMM Pg. 45	VZVA Pg. 43									
MS2-B Pg. 48	MS4 Pg. 48	MS4-B Pg. 49	MS6 Pg. 49	MS6-B Pg. 49	VRPA Pg. 48										
AMTE Pg. 53	GRVZS Pg. 54	DPA Pg. 54	GRLA/Z-D Pg. 52	HGL Pg. 52	NPHS-D6/S6 Pg. 53	KD Pg. 52									
NPQE Pg. 55	PUN-H Pg. 51	OS Pg. 51	Silencers U Pg. 53	VAS Pg. 54	VFOE Pg. 55										

Terminal CPX



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

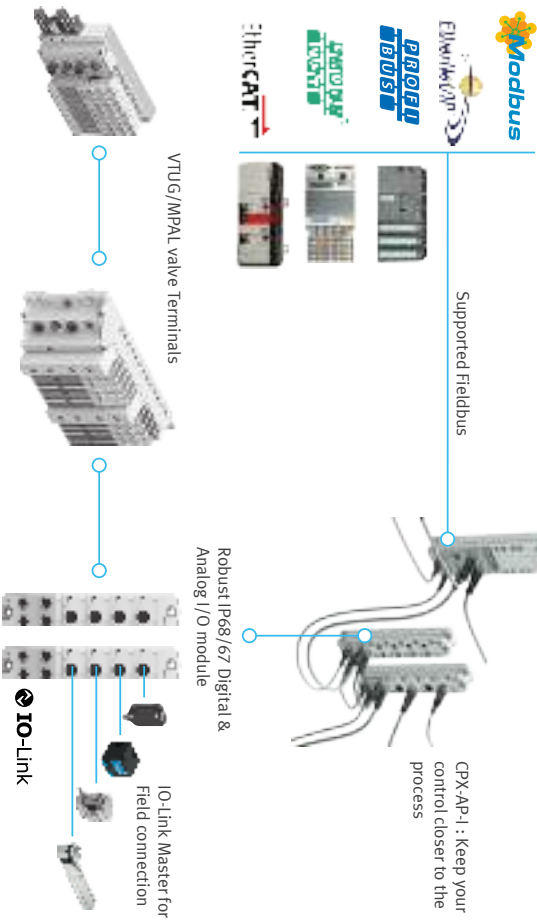
CPX-MPA for Low flow & High-density connection

CPX-VTSA for High Flow & High Availability

Supported Fieldbus system

PLC/Motion + Pneumatics
Words 1st Hybrid Controller

Distributed Remote I/O



Supported Fieldbus

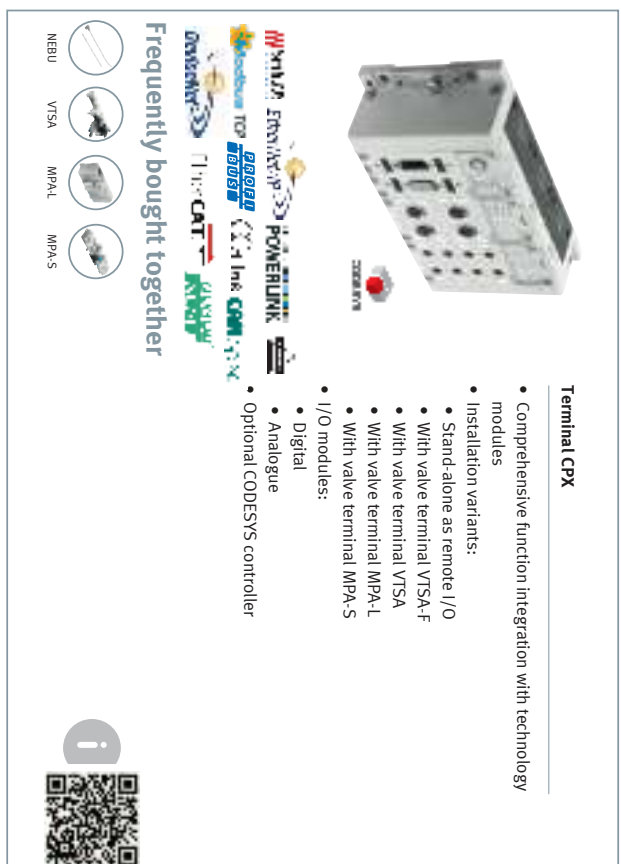
Robust IP68/67 Digital & Analog I/O module

CPX-AP-1 : Keep your control closer to the process

IO-Link Master for Field connection

IO-Link

VTUG/MPAL Valve Terminals







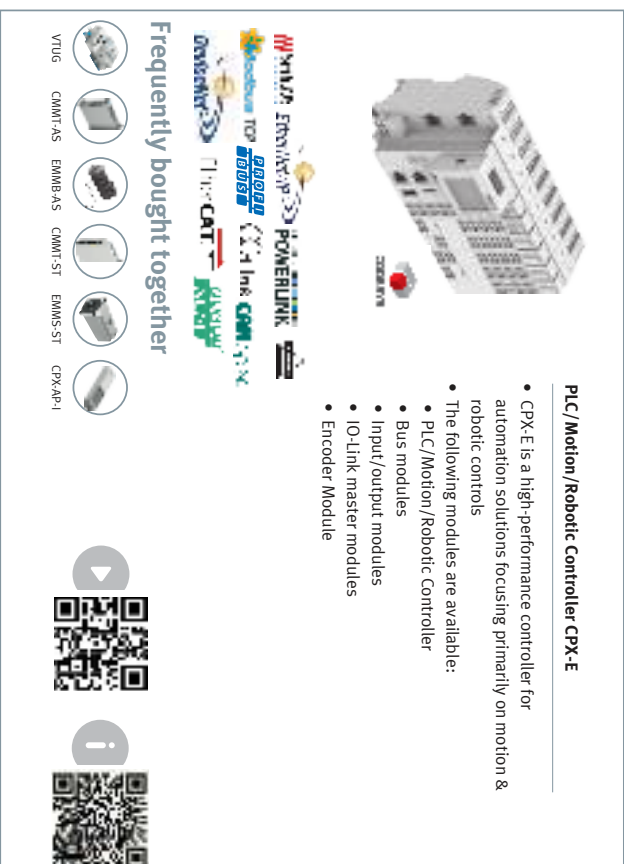


Terminal CPX

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

Frequently bought together

NEBU VTSA MPAL MPA-S


















PLC/Motion/Robotic Controller CPX-E

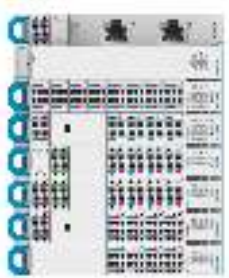
- CPX-E is a high-performance controller for automation solutions focusing primarily on motion & robotic controls
- The following modules are available:
 - PLC/Motion/Robotic Controller
 - Bus modules
 - Input/output modules
 - IO-Link master modules
 - Encoder Module

Frequently bought together

VTUG CMMT-AS EMMB-AS CMMT-ST EMMS-ST CPX-AP-1



- 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

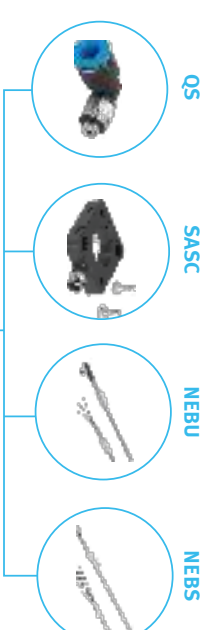


- Distributed Remote I/O system CPX-AP-1**
- IP65/IP67 Remote I/O system brings input/output controls closer to equipment or process, no electrical panel is needed to mount CPX-AP-1 modules.
 - Cost effective remote I/O system
 - Multi protocol realtime connection
 - I/O module: Analogue/Digital
 - IO-Link master
 - Pneumatic valve interface on highspeed realtime Synchronized AP bus

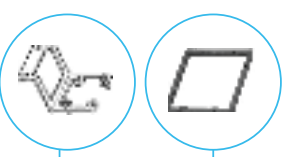
Frequently bought together



Pressure sensors SPAN



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



- SMAH**
- Front panel + wall mounting kit.



IO-Link

- 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 integrated using IO-Link 1.1.



- 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.



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



Pressure sensors SPAN-8

- 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

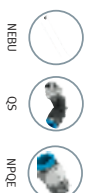


Pressure sensors SPAN

- 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



Pressure sensors SDES

- 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

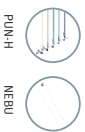
Frequently bought together



Sensors

**Flow sensors SF4H**

- 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

IO-Link**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 togetherSPAN
SPAU
CPX
CPX-E

Sensors

**Inductive sensors SIEN**

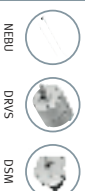
- Voltage 10 ... 34V DC
- Size 4 mm, M5, 6,5 mm, M8, M12, M18, M30
- PNP, NPN
- Flush or non-flush mounting

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 togetherNEBU
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



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



Cylinder switches SMT-8M, SMT-10M

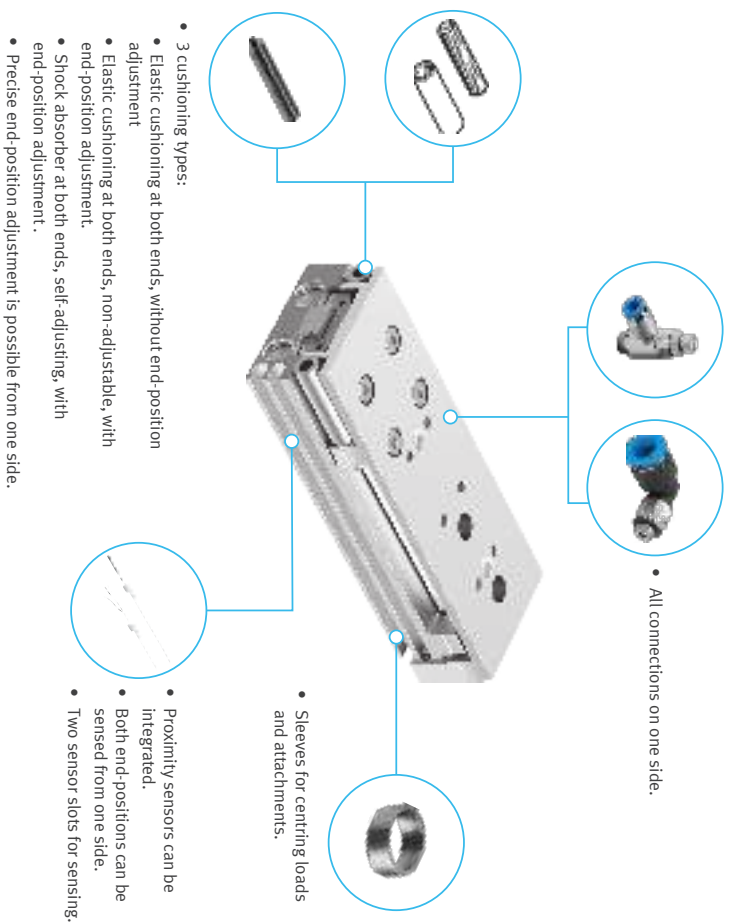


- Cylinder switches with solid-state technology
- For T slot & C slot pneumatic actuator
- Switching outputs PNP, NPN and NO, NC option available
- Electrical connection M8, M12, open end cable
- 5 ... 30 V DC

Frequently bought together



Mini slides DGST



- All connections on one side.

- Sleeves for centring loads and attachments.

- Proximity sensors can be integrated.
- Both end-positions can be sensed from one side.
- Two sensor slots for sensing.

- 3 cushioning types:
- Elastic cushioning at both ends, without end-position adjustment
- Elastic cushioning at both ends, non-adjustable, with end-position adjustment.
- Shock absorber at both ends, self-adjusting, with end-position adjustment.
- Precise end-position adjustment is possible from one side.



Lifting applications with flexible mounting



Used in packaging line

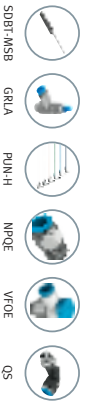
Actuators

**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

Actuators

**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**

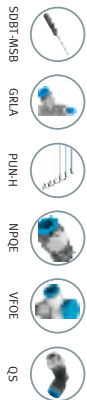
- The universal cylinder
- Standard profile with two sensor slots
- Numerous variants
- Diameter: 32, 40, 50, 63, 80, 100, 125 mm
- Stroke length: 1 ... 2800 mm
- Force: 483 ... 7363 N
- Double-acting
- Position sensing
- Fixed/adjustable/self-adjusting cushioning

Frequently bought together

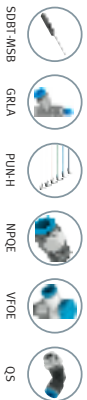
Actuators

**Short stroke cylinder ADN-S**

- Size : 6, 10, 12, 16, 20, 25, 32, 40, 50, 63 mm
- 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 DRV-S**

- 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 DHP-C**

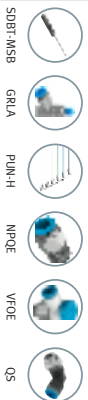
- Size 6, 10, 16, 20, 25, 32, 40
- Stroke length 2 ... 15 mm per gripper/jaw
- Force: 3,9 ... 388 N per gripper/jaw
- Position sensing
- NO/ NC gripping
- Standard and flat gripper finger design

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 DSMU-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

Actuators

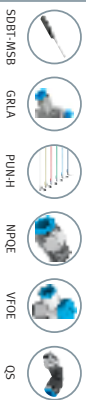
Actuators



Long stroke parallel gripper DHP1

- Size 10, 16, 20, 25, 32, 40
- Stroke per jaw : 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

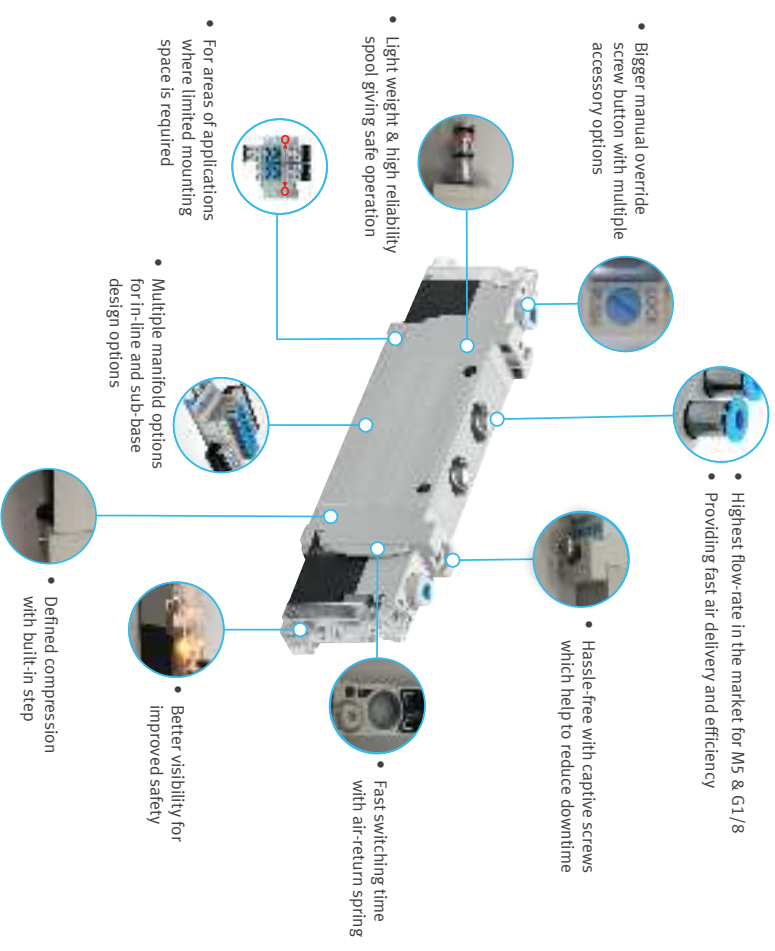
Frequently bought together



QS



Valve VUVG



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

Valves



Frequently bought together



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 VMEF

- Valve function 3/2, 5/2, 5/3
- G 1/8, G 1/4 connection
- Selector switch, finger lever, 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



Valves

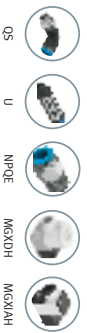
Valves

**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**

Valves

**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.

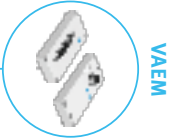
Frequently bought together**Vacuum generators OVEL**

- 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

IO-Link**Frequently bought together**

Valve Terminal VTUG

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

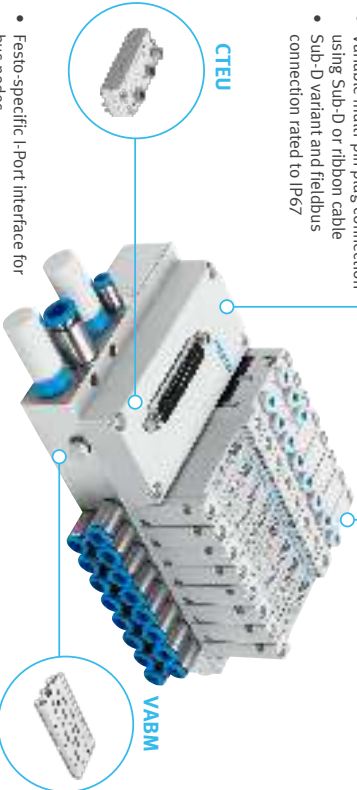


VAEM



VUVG-S

- Semi-inline valves for manifold assembly
- Fast troubleshooting thanks to 360° LED display
- Can be replaced quickly and easily
- Various choices of manual override



CTEU

VABM

- 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



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



Valves



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 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



Valves



Valve terminals MPA-1

- 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 MPA-5

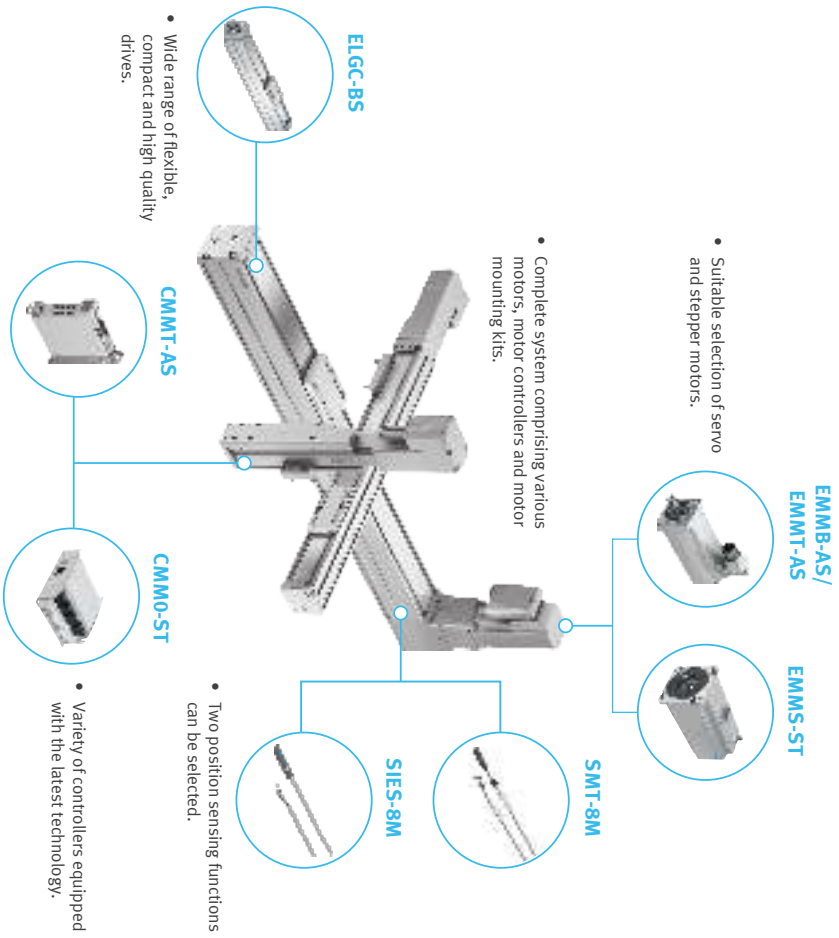
- Flow rate 360 to 700 l/min
- Valve size 10, 14, 20 mm
- Expandable up to 64 valve positions with 128 solenoid coils
- Fieldbus communication ready
- Pressure range -0,9 to 10 bar
- Protection class IP65
- Electrical remote I/O expandable by CPX electrical terminal
- Diagnostics function available
- Function integration with proportional pressure regulator VPPM



Frequently bought together

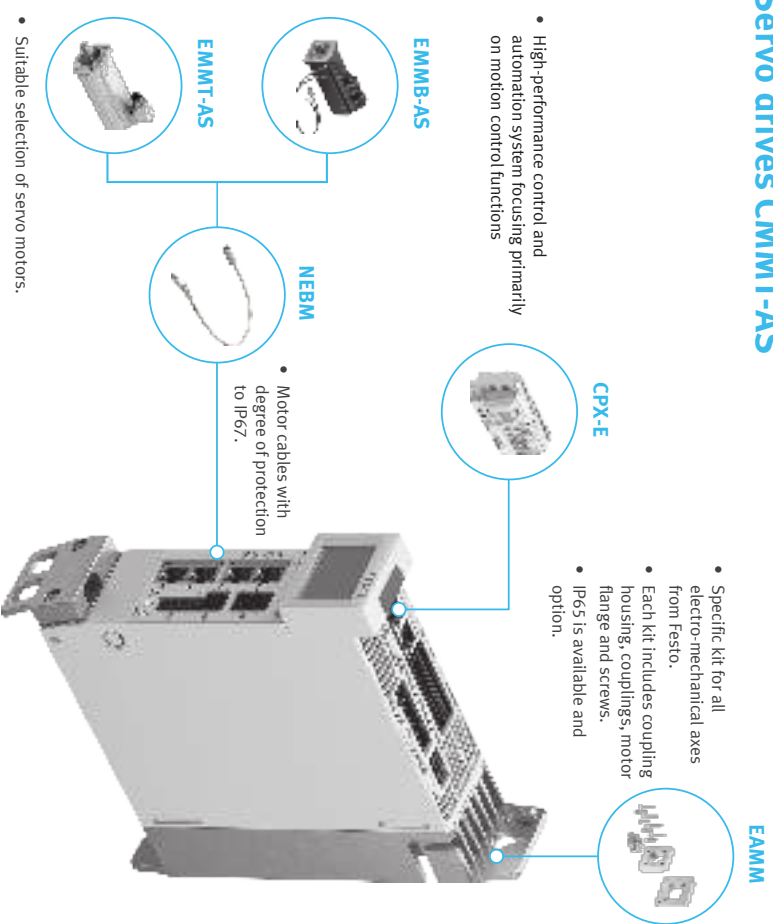


Spindle axes ELCG-BS

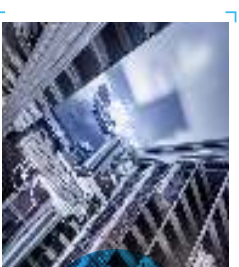


Compact and precise testing unit in assembly line

Servo drives CMMT-AS



Complete motion control in packaging line



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

Electrics

**Spindle actuators ELG-C-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



EMMB-AS CMMB-AS CMMT-AS EMMS-ST CMMT-ST SMT-9M-A

**Frequently bought together****Toothed belt actuators ELG-C-TB**

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



EMMB-AS CMMB-AS CMMT-AS EMMS-ST CMMT-ST SMT-9M-A

**Frequently bought together****Mini slides EGSC-8S**

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



CMMB-AS CMMT-AS EMMB-AS EMMT-AS EMMS-ST CMMT-ST SDBT-MSB

**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



EMMB-AS EMMT-AS EMMS-ST SDBT-MSB

**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



CMMB-AS EMMB-AS CMMT-AS EMMT-AS

**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)



CMMB-AS EMMB-AS CMMT-AS EMMT-AS SMT-9M-A EMMS-AS

**Frequently bought together**

Electrics

Electrics



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



Frequently bought together



NEBC SMT8M-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



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

Frequently bought together



NEBC



Electrics



Simplified series short stroke toothed belt actuators EPCS

- 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



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



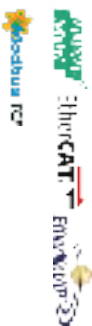
CMMT-ST CMMO-ST



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



Electrics



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



EMMB-AS

Frequently bought together



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



EMMT-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



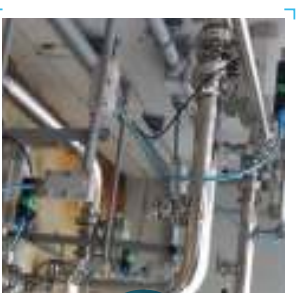
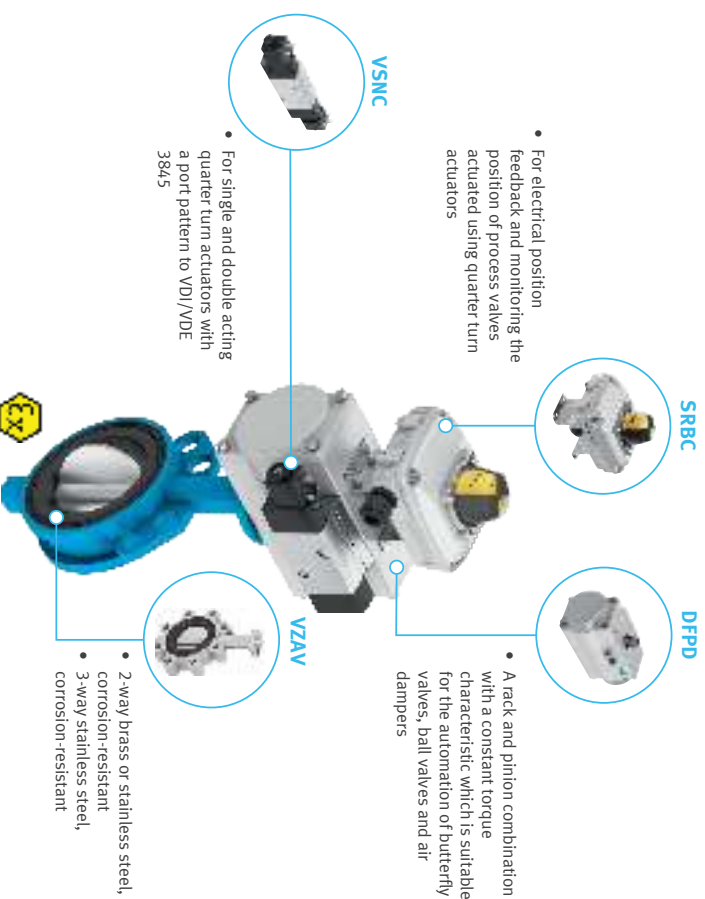
CMMB-AS



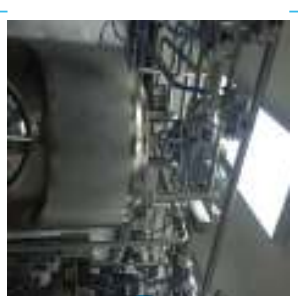
EMMT-AS



Butterfly valve unit KVZA



Used in explosive environment



Used in the production of honey

Process



Quarter turn actuators DFPPD

- 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 (T_A)X



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
- Swappable 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°



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 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 ± 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



Frequently bought together



DPPD



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



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



SASF



Frequently bought together



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



SRBG



NEBU



Frequently bought together



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 Z/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



VORX



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



QS

SDBI-MSB

VUVG-S

PUN-H

NPTG



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 VZWM

- 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 (N/C), 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



QS

NPTG



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. 1.4408, St. 1.4408 (PFA coated)
- Seat material: EPDM, EPDM high temperature, NBR, PTFE/Silicone



Frequently bought together



PCRP
MSA
MSA-B



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



Frequently bought together



PCRP
MSA
MSA-B



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



Frequently bought together



PCRP
MSA
MSA-B



Stainless steel filter regulators PCRP

- 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



OS



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



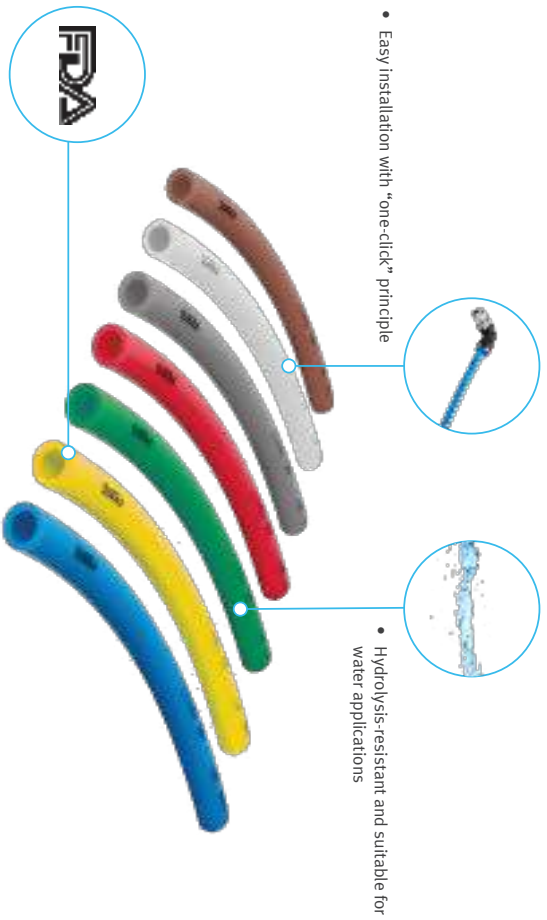
PUN-H



NPQE



Polyurethane tubings PUN-H

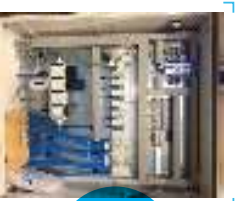


• Easy installation with "one-click" principle

• 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



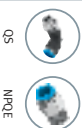
Used in process industry in harsh environment



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 ... 1.0 bar
- Ambient temperature: -35 ... 60° C
- Operating medium:
 - Compressed air
 - Vacuum
 - Water

Frequently bought together



QS

NPE



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



PUN-H



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



Piloted 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



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



Accessories



Safety couplings NPHS-D6/S6

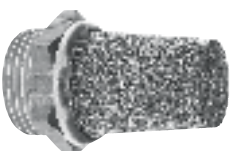
- AG connection: G 1/8, G 1/4, G 3/8, G 1/2
- IG connection: G 1/4, G 3/8, G 1/2
- Barbed connector: N9
- Optional 3/2-way hand slide valve
- Certified by IFA (Institute for Occupational Safety and Health)

Frequently bought together



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



OVEL VN OVEH



Compressed air reservoirs CRVZS

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

Frequently bought together



DPA



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 Nl/min
- Ambient temperature: +5 ... +60°C

Frequently bought together



CRVZS



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



PUN-H



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











PUN-H

Accessories









Industry segments

								
Pg 07 Terminal CPX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pg 07 PLC/Motion/Robotic Controller CPX-E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg 08 Remote I/O system CPX-E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg 08 Distributed Remote I/O system CPX-AP-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg 10 Pressure sensors SPAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 10 Pressure sensors SPAN-B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 10 Pressure sensors SPAU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 11 Pressure sensors SDE5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 11 Flow sensors SFAH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 11 Connecting cables NEBU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 12 Inductive sensors SIEN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 12 Position sensors SRBS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 13 Cylinder switch SDBT-MSX	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 13 Cylinder switches SDBT-MSB / SDBC-MSB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 13 Cylinder switches SMT-8M, SMT-10M	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 15 Mini slides DGST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 15 Linear drives DGC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 15 Linear drives DGC-K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 16 Guided drives DFM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 16 Round cylinders DSMU	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 16 Standard cylinders DSBC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 17 Short stroke cylinders ADN-S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 17 Semi-rotary drives DRVS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg 17 Semi-rotary drives DRRD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>








Industry segments

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

Industry segments

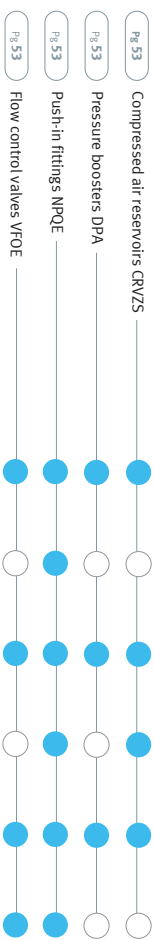
								
Pg. 32 Compact electric cylinders EPCC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 32 Toothed belt actuators EGC-1TB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pg. 32 Electric cylinders ESBF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 33 Simplified series spindle and toothed belt actuators ELGS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 33 Simplified series mini slide actuators EGSS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 34 Simplified series toothed belt actuators ELGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 34 Simplified series rotary actuators ERMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 34 Extra low voltage servo drives CMMT-ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 35 AC servo drives high performance CMMT-AS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 35 AC servo drives economical CMMB-AS (for use with EMMB-AS motor)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 35 Stepper motors EMMS-ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 36 AC servo motors economical EMMB-AS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Pg. 36 Simplified series short stroke toothed belt actuators EPCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 37 Simplified series compact electrical cylinder actuators EPCS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 39 Quarter turn actuators DFPP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 39 Sensor boxes SRBC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 39 Positioners CMSX	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 40 Visual indicators SASF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 40 Sensor boxes SRBG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 40 Linear actuators DPFC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 41 Angle seat valves VZXA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Industry segments

								
Pg. 42 Solenoid valves VZWF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 42 Pinch valves VZQA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 43 Butterfly valve assembly units KVZA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 43 Ball valve assembly units KVZB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 43 Actuator assembly units KQPP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 44 Stainless steel filter regulators PCRP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 44 Positioners CMISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 45 Sensor boxes SRBI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 46 Air preparation MS2/4/6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Pg. 48 Pressure regulator VRPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 50 Polyurethane tubings PUN-H	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 50 Push-in fittings QS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 50 Flow control valves GRLA/Z-D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 51 Piloted check valves HGL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 51 Quick couplings sockets KD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pg. 51 Safety couplings NPHS-D6/56	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Pg. 52 Suction cups VAS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Industry segments

- Targeted Industry Segments
- Possible Industry Segments



Singapore
Festo Pte. Ltd.
6 Klean Teck Way
028754
Tel: +65 6285 8585

Indonesia
PT. Festo
Jl. Tekno V Blok A/ 1 sektor 11
Kawasan Industri BSD
Serpong - Tangerang 15314
Banten
Tel: +62 0804 1 233786

Malaysia
Festo Sdn Bhd
14A, Jalan Teknologi,
Taman Sains Selangor 1,
Kota Damansara,
47810 Petaling Jaya,
Selangor
Tel: +60 3 6144 1122

303-4-30 Krysad Point
Jalan Sultan Azlan Shah
11900 Penang
Tel: +60 3 6144 1122

Philippines
Festo Inc.
KM 18, West Service Road
South Superhighway
1700 Paranaque City
Metro Manila
Tel: +63 1800 10 1233786

Thailand
Festo Ltd.
202 Kanchanapisek Road
Ramindra Khannavao
Bangkok 10230
Thailand
Tel: +66 1 8000 019 051

Vietnam
Festo Co., Ltd
Floor 2, HQ Tower, No. 9,
Tran Nao Street, Binh An Ward,
District 2, Ho Chi Minh City, Viet Nam
Tel: +84 (28) 3514 5600
Fax: + 84 (28) 3514 5601

Room 407 - Floor 4,
Ford Thang Long Building,
105 Lang Ha Str., Dong Da Dist., Ha Noi.
Tel: +84 (24) 32001624 / 32001584



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