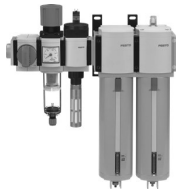


# The Festo Core Range Big Five

# FESTO



Efficient,  
diverse  
and fast!



Filter regulator  
MS-Basic



One-way flow  
control valve VFOE



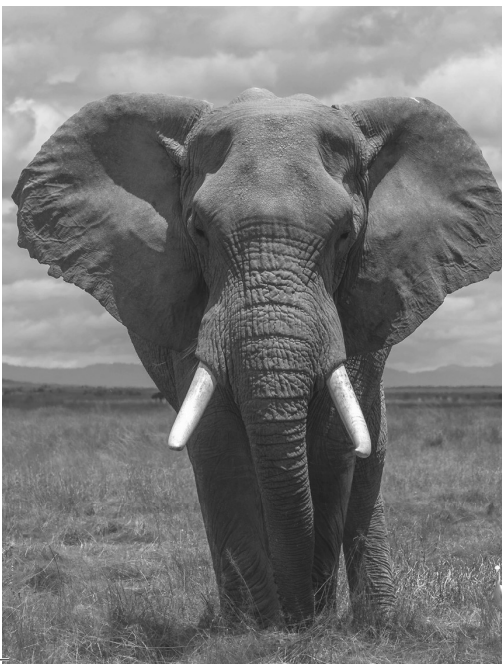
Compact cylinder,  
double-acting ADN-S



Proximity switch  
SDBT-MSX



Round cylinder  
DSNU-S



**Do you have ambitious targets?  
Do you want to achieve more?  
We expand your horizons.**

**→ WE ARE THE ENGINEERS  
OF PRODUCTIVITY.**



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**More compact and  
space-saving designs**

**Resource-friendly products  
that save materials**

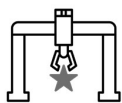
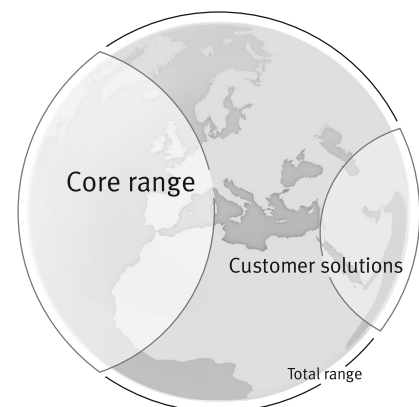
## The Festo Core Range Big Five

Best sellers in automation technology

We have selected the most important products from our broad product catalogue as part of our big five. Our most sought-after products are guaranteed to solve a majority of your automation tasks and offer you the best value with the expected high quality you expect from Festo.

Tried-and-tested quality components are not a reason for us to reduce our efforts. Instead, we constantly think about how we can further optimise products and ensure they are:

- Lighter to reduce moving weight
- Sturdier so that smaller sizes can be used for the same performance
- Flexible in design to reduce the storage space needed
- Less resource-intensive by streamlining the number of components used
- Built to improve and boost new material flows



**Solves the majority of your automation tasks**



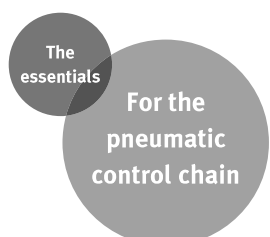
**Best value**



**Easy and fast to select**



**Expected high Festo quality**



**Quicker cycle times as less moving weight**

**Easier warehousing thanks to less stock**

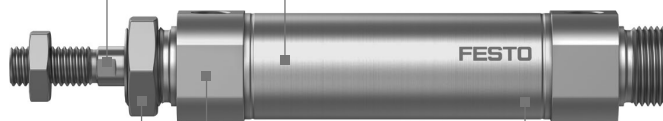
## Round cylinder DSNU-S

Although big in size, buffalos can move through the bush with amazing speed and agility. The Festo space-saving round cylinder DSNU-S is no stranger to speed. It consists of a self-adjusting pneumatic end-position cushioning that adapts optimally to load and speed changes. The DSNU-S's materials and precision manufacturing make its variants durable and robust. This cylinder is the perfect choice for high running performance.



**Economical** due to wear-resistant materials

**Quick to commission** with suitable cylinder switch SDBT-MSX with auto-teach-in function



**Space-saving** slim mounting thread for direct mounting

**Easy to mount** thanks to many spanner flats

**Easy to operate** self-adjusting pneumatic cushioning PPS

### Round cylinder DSNU-S with self-adjusting cushioning PPS and slim design

- Space-optimised variant
- Diameter: 8, 12, 16, 20, 25 mm
- Stroke length: 10 ... 200 mm
- Force: 23 ... 294 N
- Double-acting
- Position sensing
- Time-saving assembly with self-adjusting cushioning PPS
- Slimmer and shorter than ever
- Extremely durable, also thanks to low-wear materials
- Easy to identify and re-order with the Festo Product Key



→ [www.festo.com/catalogue/dsnu-s](http://www.festo.com/catalogue/dsnu-s)

### Useful accessories



KSG



FK



SGS



HBN-S



SMBR-B



GRLA/GRLZ



QS



VFOE



SMT



SDBT-MSX



→ Youtube Video

## Compact cylinder ADN-S

Elephants are considered the strongest and most intelligent animals amongst the big five. Coming in different sizes, the Festo compact cylinder, double-acting ADN-S, can be considered the elephant in the core range due to its outstanding features and large selection of variants as well as accessories. The cylinder's compact body, detailed features and accessories speak to its intelligent design. One such example is the patent 3-component piston with excellent running and cushioning characteristics in the end positions – for high speeds and machine cycles.



### Compact cylinder ADN-S

- Diameter: 6, 10, 12, 16, 20, 25, 32, 40, 50, 63 mm
- Stroke length: 5 ... 50 mm
- Force: 10 ... 1870 N
- Double-acting
- Without cushioning
- Elastic cushioning rings/plates on both sides (from diameter 12 on)
- Copper-free variant available
- Excellent running characteristics thanks to one-piece housing
- Labelled with sensor markings and product key
- Copper-free variant available



→ [www.festo.com/catalogue/adn-s](http://www.festo.com/catalogue/adn-s)

### Useful accessories



QSM



PUN-H



SMT



SDBT-MSX



→ Youtube Video

# Filter regulator MS-Basic

As the kings of the African plains, lions signify courage, strength, and power. What's more, they live in groups called prides. With its large product range, highly effective components and a wide choice of functions, the MS-Basic series are easily the king of the Festo plains. Its strength lies in its ability to offer a complete concept for compressed air preparation and can also be connected to a modular air preparation system – making it suitable for simple standard applications as well as application-specific solutions.



**Light and sturdy** courtesy of its advanced polymer material

**Space-saving** thanks to direct use of M5/QS6

**Easy to read off the condensate fill level** because of its transparent filter bowl



**Small pressure** in MPa or bar/psi

**High flow rate** with very small sizes

**Quick and safe locking** as it has bayonet fastening

## Compressed air preparation

### MS2-B/MS4/MS6 and MS-B series

MS-B series, from individual devices to service unit combinations:

- Soft-start valves MS-DL
- On/off valves MS-EE
- Pressure regulators MS-LR
- Filter regulators MS-LFR
- Service unit combinations MS-B

Optimum control response

- High flow rate
- Sturdy with to high-quality polymer
- Condensate level always visible (LFR)



→ [www.festo.com/catalogue/ms2](http://www.festo.com/catalogue/ms2)

## Useful accessories



PAGN-23



MS4-WR



MS2-WRS



MS2-G18S



LFP-D-MICRO



→ Youtube Video

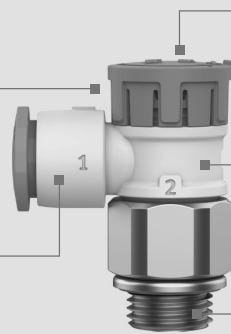
# One-way flow control valve VFOE

Leopards are known for their amazing camouflage and ability to thrive in different environments. This is the same with the new, manually adjustable one-way flow control valve VFOE. It offers different valve functions, numerous connection sizes and can adapt to different environments - making it the perfect solution for standard requirements in pneumatic automation technology.



**Easy and reliable flow rate setting**  
thanks to latching function

**Simple tubing connection**  
by using QS fitting



**Quick function detection and selection**  
comprising of control knob in different colours  
(supply or exhaust flow control)

**Flexible outlet angle**  
with rotatable head

**Direct fitting**  
with threaded connection

## One-way flow control valve VFOE

- Compact and light
- Fast and safe adjustment through "push-to-lock"
- Connection: M5, M7, 1/8, 1/4, 3/8, 1/2
- Plug connection: 4, 6, 8 mm
- Flow rate: 0 ... 1200 l/min
- For exhaust air and supply air
- Best price/performance for standard applications
- Reduced installation space due to smaller dimensions
- Fast identification of the right solution (valve function) thanks to different colours
- Bulk packages for lower recycling costs



→ [www.festo.com/catalogue/vfoe](http://www.festo.com/catalogue/vfoe)

## Useful accessories



PUN-H



To be provided by the customer



→ Youtube Video

# Electronic proximity switch SDBT-MSX

Rhinos have a strong sense of smell that alerts them of potential threats. This animal can be easily likened to the Festo proximity switch SDBT-MSX. Our switch senses the proximity of a magnetic field and creates positive feedback in the sensor which then provides the signal. With its detection range of 20 mm, it is easy to install especially in applications where mounting is difficult.



**Very easy to commission**  
owing to its auto-teach-in

**Programmable** with teach button  
(switching point NPN/PNP, NO/NC,  
switching window)

**Cable quality**  
for energy chains and robots

**Easy-to-see display**  
teach-in procedure,  
switching status

**Compact and sturdy housing**  
only 28 mm long, IP65 and IP68

**Sturdy and problem-free mounting**  
thanks to captive mounting screw



## Electronic proximity switch SDBT-MSX

- Automatic detection of the switching point
- Programmable switching output
- Programmable width of switching window
- Fewer part numbers in stock thanks to setting options
- Programming of:
  - Switching point
  - PNP/NPN
  - NO/NC
  - Switching window range 2 ... 15 mm



→ [www.festo.com/catalogue/sdbt](http://www.festo.com/catalogue/sdbt)

## Useful accessories



To be provided by the customer



→ Youtube Video

## More information on the full Core Range

Delivering large quantities at an attractive price with Festo quality

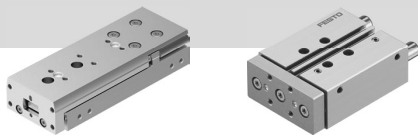
The demands of our customers are changing. As a result, we have changed our production processes to meet all aspects of your requirements.

### Look for the star ★

- Efficient production process
- Smart design

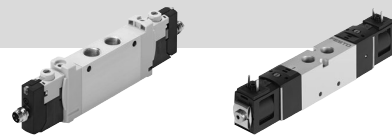
### Guided drives

Optimised design and production



### Valves

Low cost with no performance limitations



### Cylinders and switches

Increased long service life



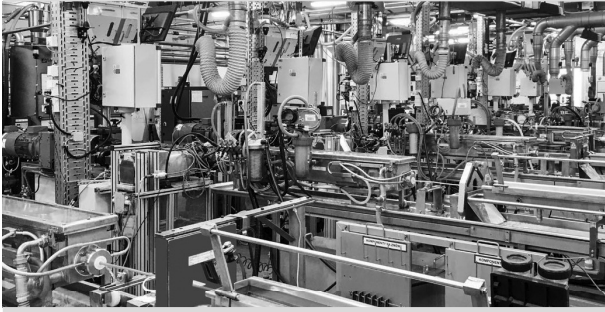
### Air supply units

Lightweight and functional



## Tubes

1 m every 0,6 seconds



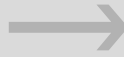
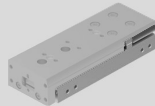
### Best delivery and price

Optimisation successes in our production lines: time savings of 50% thanks to investments, material consumption reduced up to 30% and number of parts reduced up to 10%.

This ultimately means that we can supply these products to you quickly and at the best prices.

### Example of an innovation in detail

SLT



DGST



#### Optimisation for volume production

- From design to production

#### Assembly

- Individual parts reduced from 44 to only 29
- Slide and yoke made from one piece
- Standardisation of all screw fastenings
- Simplified connection to the yoke plate

#### Manufacturing

- New clamping concept
- Optimised profile
- Screwed rod connection replaced by riveted connection














#### Savings

- Production time -50%, parts -30%, materials -10%






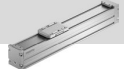
**Consistent quality**

# Our range of products at a glance


## Drives

	Guided/robust/extended	Universal	Compact
<b>Semi-rotary drives</b>	 DRRD	 DRVS	
<b>Linear drives</b>	 DGST	 DFM	 ADN-S
		 DSBC	 DSNU
		 DSNU-S	
<b>Quarter turn actuator</b>		 DFPD	
<b>Grippers</b>	 HGPT	 HGPL	 DHPS
			 DHPC

## Positioning

	Linear axis	Electric cylinder	Clean Design
<b>Pneumatic</b>	 DGC		
	 DGC-...-K		
<b>Electrical</b>	 EGC	 EPCC	 ESBF
	 ELGC		




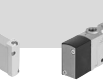





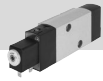



## Positioning

	For quarter-turn actuators
<b>Process automation</b>	 CMSX












## Valves

From focused features to advanced features

<b>Factory automation – electrical</b>					
	VUVG-...-S	VUVS-...-S	VUVG/VUVG-T1	VUVS	
<b>Factory automation – mechanical</b>					
	VMEF	VHEF	VHER		VHER
<b>Process automation</b>					
	VZWD	VSNC	VZWF	VZWM	VZXA

## Valve terminals

<b>Fieldbus</b>				
	VTSA-F-CPX	VTSA-CPX	MPA-CPX	CPX
<b>Multi-pin</b>				
	VTSA-F-MP	VTSA-MP	MPA-L	VTUG
<b>Individual connection</b>				
				VTUS



## Displays / converters

### Switches





<b>Pressure detection</b>		
	SDE5	SPAN






## Position controllers

	Stepper motor	Servo motor
Electrical	 CMMT-ST	 CMMT-AS

## Sensors for drives

	Contact	Contactless
Factory automation		 SMT  SDBT-MSX  SRBS
Process automation	 SRBC	

















## Compressed air preparation

	Pressure regulator	Filter regulator	Service unit
Decentralised preparation	 MS2-LR-B MS4-LR-B MS6-LR-B	 MS2-LFR-B MS4-LFR-B MS6-LFR-B	 MSB4 MSB6

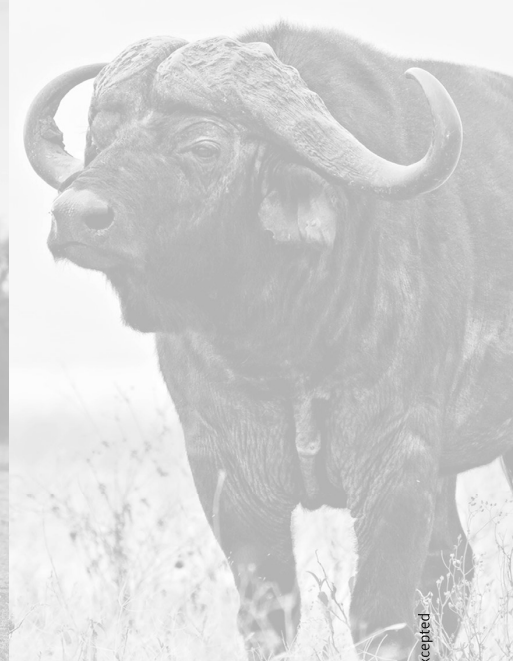
## Valves for air preparation devices

	On/off valve / soft-start valve	Soft-start, electric
	 MS4-EE-B	 MS4-EDE-B

## Tubing and connections

	<b>Normal resistance</b>	<b>High resistance</b>	<b>Translucent</b>		
<b>Pneumatic</b>					
		PUN-H	PUN-H-T		
	<b>Straight</b>	<b>Angled L-shape</b>	<b>T-shape</b>	<b>Y-shape</b>	<b>Plug</b>
<b>Normal thread</b>					
	QS QSF QSS	QSL QSLL QSLV QSLF	QST QSTL	QSY QSYL	QSC
<b>Reduced thread</b>					
	QSM QSMS	QSML	QSMT	QSMY	
	<b>Single coupling socket</b>	<b>Safety coupling socket</b>			
<b>Pneumatic</b>					
	KD4	NPHS			
<b>Vacuum</b>					
	<b>Generators</b>		<b>Suction cup</b>		
<b>Vacuum range</b>					
	OVEL	VN	VAS		





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