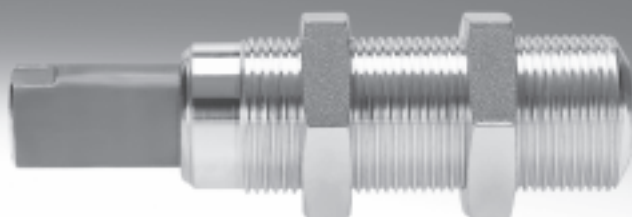


Accessories for vacuum technology

FESTO



Accessories for vacuum technology

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Technical data

Height compensator VAL

Temperature range
-10 ... +60 °C

Note

For suction cup VAS/VASB
→ Internet: vas

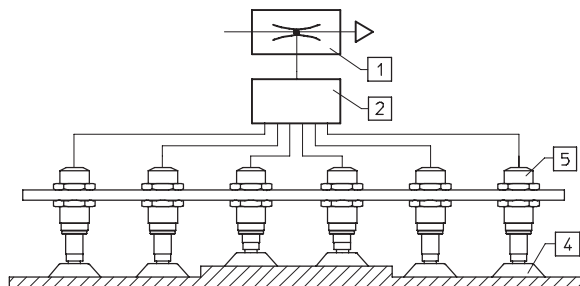


General technical data			
Size	5	10	20
Design	Vacuum port on top		
Operating medium	Atmospheric air		
Mounting position	Any		
Type of mounting	Mounting on the male thread or via the female air connection thread of the housing		
Vacuum port	M5	G1/8	G1/4
Operating pressure [bar]	-0.95 ... 8		

Ambient conditions			
Size	5	10	20
Housing	Aluminium		
Seals	Nitrile rubber		
Note on material	Free of copper, PTFE and silicone		
Ambient temperature [°C]	-10 ... +60		

Gentle handling of the workpieces by compensating for any excess stroke of the handling device or tolerance differences in the workpiece thickness.

- 1 Vacuum generator
- 2 Distributor
- 4 Suction cup
- 5 Height compensator

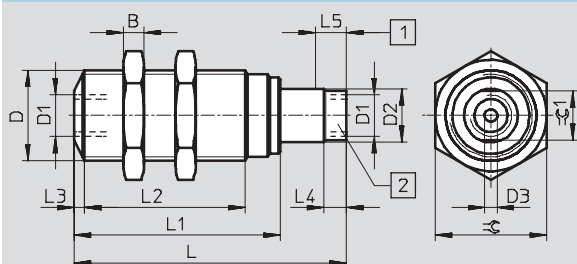


Accessories for vacuum technology

Technical data

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Dimensions



1 Spring travel for height compensator

2 Suction cup connector

Type	B	D	D1	D2 Ø	D3 Ø	L	L1	L2	L3	L4	L5	⌀	⌀ 1
VAL-M5-5	5	M16x1	M5	8	2	46	35	25.5	2	4.5	5	19	7
VAL-1/8-10	6	M22x1.5	G1/8	13	3	66	50	39	2.5	5.5	10	27	12
VAL-1/4-20	8	M26x1.5	G1/4	17	4	100	73	60	2.5	6.5	20	32	16

Ordering data

Height compensator [mm]	Vacuum port	Part No.	Type
5	M5	151209	VAL-M5-5 ¹⁾
10	G1/8	151210	VAL-1/8-10 ¹⁾
20	G1/4	151211	VAL-1/4-20 ¹⁾

1) Free of copper, PTFE and silicone

Accessories for vacuum technology

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Technical data

Angle compensator ESWA

Temperature range
0 ... +60 °C

Note on materials:
RoHS-compliant

Note

For suction gripper ESG, between
suction cup and suction cup holder
→ Internet: esg



General technical data			
Holder size	3	4	5
Design	Ball joint with ± 15° swivel angle		
Operating medium	Atmospheric air		
Mounting position	Any		
Type of mounting	With threaded connection		

Ambient conditions			
Holder size	3	4	5
Housing	Aluminium		
Seals	Nitrile rubber		
Ambient temperature [°C]	0 ... +60		
Corrosion resistance CRC ¹⁾	1		

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weights [g]			
Holder size	3	4	5
ESWA- ...	9	19	57

Dimensions				

Type	D1 Ø	D2	L1	L2
ESWA-3	15	M4x0.7	23	4
ESWA-4	20	M6x1	28.5	6
ESWA-5	28	M10x1.5	40.5	10

Ordering data		
Holder size	Part No.	Type
3	191205	ESWA-3
4	191206	ESWA-4
5	191207	ESWA-5

Product Range and Company Overview

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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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