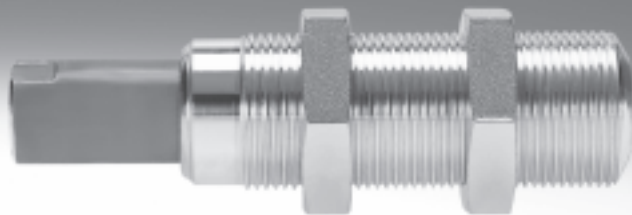


Accessories for vacuum technology


FESTO




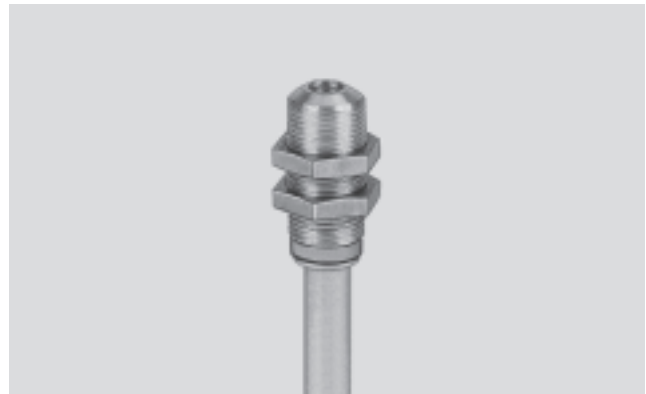
Accessories for vacuum technology

Technical data

Height compensator VAL

-  - Temperature range
-10 ... +60 °C





-  - Note
For suction cup VAS/VASB
→ Internet: vas

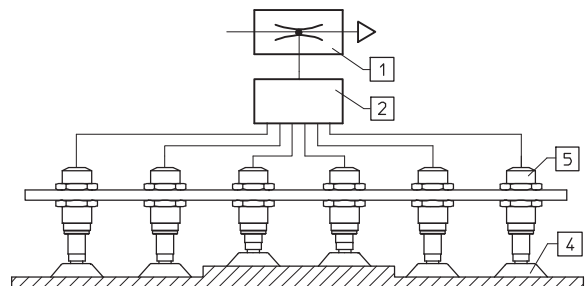


General technical data			
Size	5	10	20
Design	Vacuum port on top		
Operating medium	Atmospheric air		
Mounting position	Any		
Type of mounting	Mounting on the male thread or via the female air connection thread of the housing		
Vacuum port	M5	G $\frac{1}{8}$	G $\frac{1}{4}$
Operating pressure [bar]	-0.95 ... 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.

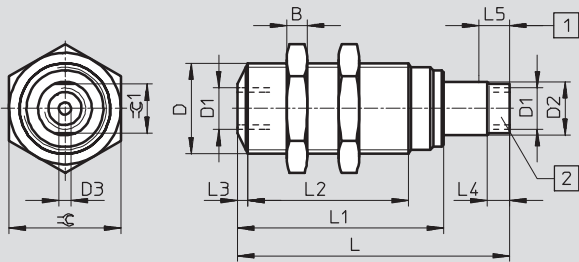
-  Vacuum generator
-  Distributor
-  Suction cup
-  Height compensator



Accessories for vacuum technology

Technical data

Dimensions



1) Spring travel for height compensator

2) Suction cup connector

Type	B	D	D1	D2 ∅	D3 ∅	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

Technical data

Angle compensator ESWA

Temperature range
0 ... +60 °C



Note

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



Note on materials:
RoHS-compliant

General technical data			
Holder size	3	4	5
Design	Ball joint with $\pm 15^\circ$ 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	D2	L1	L2
	Ø			
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