Compensating components





Length compensator VAL

Datasheet

Length compensator VAL

Accessory for suction cups VAS/VASB → Internet: vas



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

- Vacuum generator [1]
- [2] Distributor
- [4] Suction cup
- [5] Length compensator



General technical data

General technical data									
Vacuum connection		M5	G1/4						
Suction cup mounting		M5	G1/8	G1/4					
Design		Vacuum port on top							
Mounting position		Any							
Type of mounting		With male thread M16x1	With male thread M22x1.5	With male thread M26x1.5					
Height compensator for suction	[mm]	5	10	20					
cup holder									
Product weight	[g]	25	62	118					

Operating and environmental conditions

Operating pressure [bar]	-0.95 +8
Operating medium	Compressed air to ISO 8573-1:2010 [7:]
PWIS conformity	VDMA24364-B1/B2-L
Suitable for the production of lithium-ion	Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated
batteries	surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Ambient temperature [°C]	-10+60
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

Corrosion resistance class CRC 2 to Festo standard FN 940070 1)

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Materials							
Housing	Aluminium						
Retaining bracket	Aluminium						
	POM						
	High-alloy stainless steel						
Seals	NBR						
Note on materials	RoHS-compliant						

Length compensator VAL

Download CAD data \rightarrow <u>www.festo.com</u>

Datasheet

Dimensions

[1] Spring deflection for length compensator

[2] Port for suction gripper

Ordering data															
Vacuum connection	В	D	D1	D2 Ø	D3 Ø	L	L1	L2	L3	L4	L5	<i>≕</i> ©	=© 1	Part no.	Туре
M5	5	M16x1	M5	8	2	46	35	25.5	2	4.5	5	19	7	151209	VAL-M5-5
G1/8	6	M22x1.5	G1/8	13	3	66	50	39	2.5	5.5	10	27	12	151210	VAL-1/8-10
01/0	U U		/-		-		-								

L5

<u>L4</u>

'n

1

2

Datasheet

Angle compensator ESWA

Accessory for suction gripper ESG, mounting between suction cup complete holder and suction cup \rightarrow Internet: esg



General technical data

Pneumatic connection	M4	M6	M10			
Suction cup mounting	M4	M6	M10			
Allocating suction cup holders	Size 3	Size 4	Size 5			
Design	Ball joint					
Angle compensator +/- [°]	15					
Mounting position	Any					
Type of mounting	With male thread					

Operating and environmental conditions

Operating and environmental conditions							
Operating pressure	[bar]	-0.95 +4					
Ambient temperature	[°C]	0+60					
Corrosion resistance class CRC ¹⁾		1					

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

Materials

Materials	
Housing	Aluminium, nickel-plated brass
Seals	NBR
Note on materials	RoHS-compliant

Dimensions



Ordering data

or a comp and a							
Allocating suction cup holders	D1	D2	L1	L2	Weight	Part no.	Туре
	Ø				[g]		
Size 3	15	M4	23	4	9	191205	ESWA-3
Size 4	20	M6	28.5	6	19	191206	ESWA-4
Size 5	28	M10	40.5	10	57	191207	ESWA-5

Download CAD data → <u>www.festo.com</u>