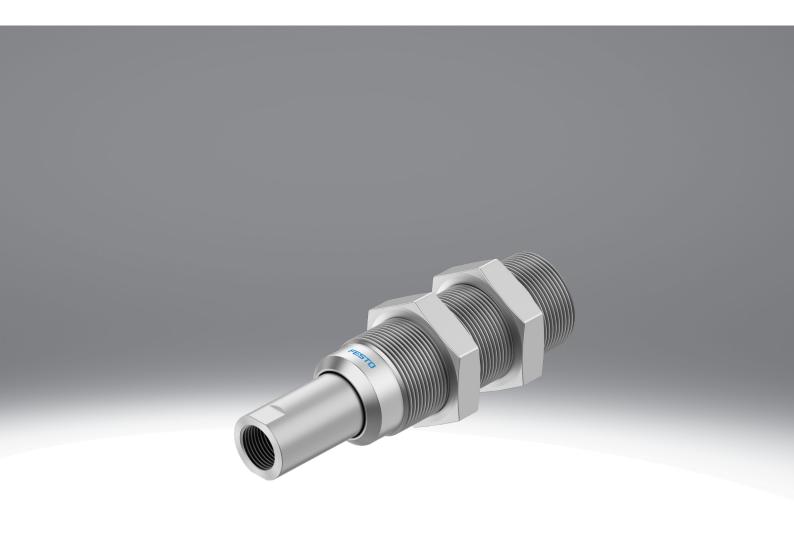
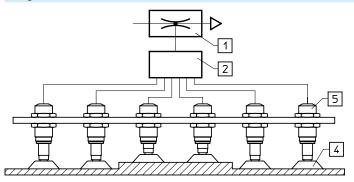
Length compensator VAL





Characteristics

At a glance



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

The length compensator VAL is an accessory for the suction cups with connection VAS/VASB. It is used for treating the workpieces gently by compensating for a possible excess stroke of the handling device or by compensating for tolerance differences in the workpiece thickness.

Special material properties

[F1A] Recommended for production plants for manufacturing lithium-ion batteries, F1A

Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils

Type code

001	Series									
VAL	Length compensator	ength compensator								
002	Suction cup connection									
644	0.4									
G14	G1/4									
G14 G18	G1/4 G1/8									

003	Length compensator [mm]	
5	5	
10	10	
20	20	
80	80	
004	Special material properties	

004	Special material properties	
	None	
F1A	Recommended for production plants for manufacturing lithi-	
	um-ion batteries, F1A	

Datasheet

General technical data									
Vacuum connection	M5	G1/8	G1/4	Female thread G1/8	Female thread G1/4	Female thread G3/8	Female thread M5		
Suction cup mounting	M5	G1/8	G1/4	Female thread G1/8	Female thread G1/4	Female thread G3/8	Female thread M5		
Design	Vacuum port on top	Vacuum port on top							
Mounting position	optional								
Type of mounting	With male thread With m								
	M16x1 M22x1.5 M26x1.5 M22x1.5 M26x1.5 M25x1.5 M16x1								
Height compensator for suction-cup holder	5 mm	10 mm	20 mm	10 mm	20 mm	80 mm	5 mm		

Operating and environmental conditions

Operating pressure	8 bar						
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]						
Ambient temperature	-10 60°C						
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress						

¹⁾ More information www.festo.com/x/topic/crc

Materials

Material housing	Aluminium
Material retaining bracket	Aluminium, POM, Galvanised steel
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Materials – special material properties: F1A

Material retaining bracket	Aluminium, POM, High-alloy stainless steel
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni

Dimensions

Download CAD data & www.festo.com

- [1] Spring deflection for length compensation
- [2] Connection for suction gripper

	В	D	D1	D2 Ø	D3 Ø	L	L1	L2	L3	L4	L5	=© 1	= © 2
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

Dimensions

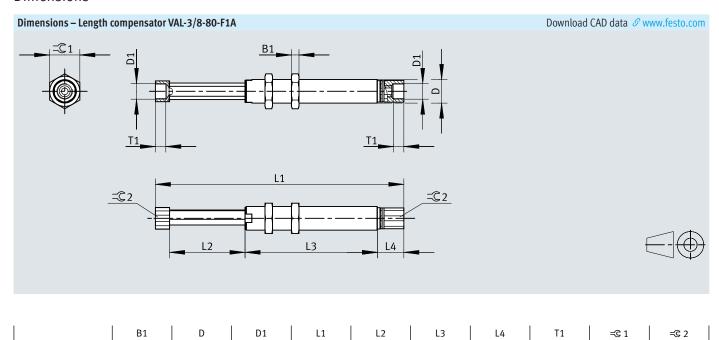
VAL-3/8-80-F1A

8

M25x1,5

G3/8

263



80

140

28

11

32

22

Ordering data

Ordering data										
	Suction cup mounting	Height compensator for suction-cup holder	Product weight	Part no.	Туре					
	G1/4	20 mm	118 g	151211	VAL-1/4-20					
	G1/8	10 mm	62 g	151210	VAL-1/8-10					
	M5	5 mm	25 g	151209	VAL-M5-5					

Ordering data – Products for battery production										
	Suction cup mounting	Height compensator for suction-cup holder	Product weight	Part no.	Туре					
	Female thread G1/8	10 mm	62 g	8214723	VAL-1/8-10-F1A					
	Female thread G1/4	20 mm	118 g	8214724	VAL-1/4-20-F1A					
	Female thread G3/8	80 mm	275 g	8210510	VAL-3/8-80-F1A					
	Female thread M5	5 mm	25 g	8214722	VAL-M5-5-F1A					