

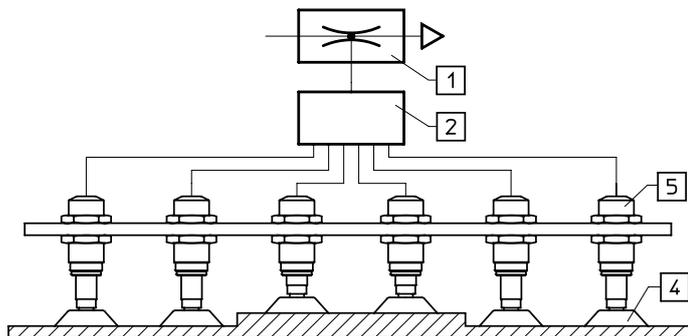
## Length compensator VAL

**FESTO**



## 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.

## Type code

001	Series
VAL	Length compensator

002	Suction cup connection
G14	G1/4
G18	G1/8
G38	G3/8
M5	M5

003	Length compensator [mm]
5	5
10	10
20	20
80	80

004	Special material properties
F1A	Recommended for production plants for manufacturing lithium-ion batteries, F1A

## Datasheet

**General technical data**

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

**Operating and environmental conditions**

Operating pressure	-0.95 ... 8 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7::-]
Ambient temperature	-10 ... 60°C
Corrosion resistance class CRC <sup>1)</sup>	2 - Moderate corrosion stress

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

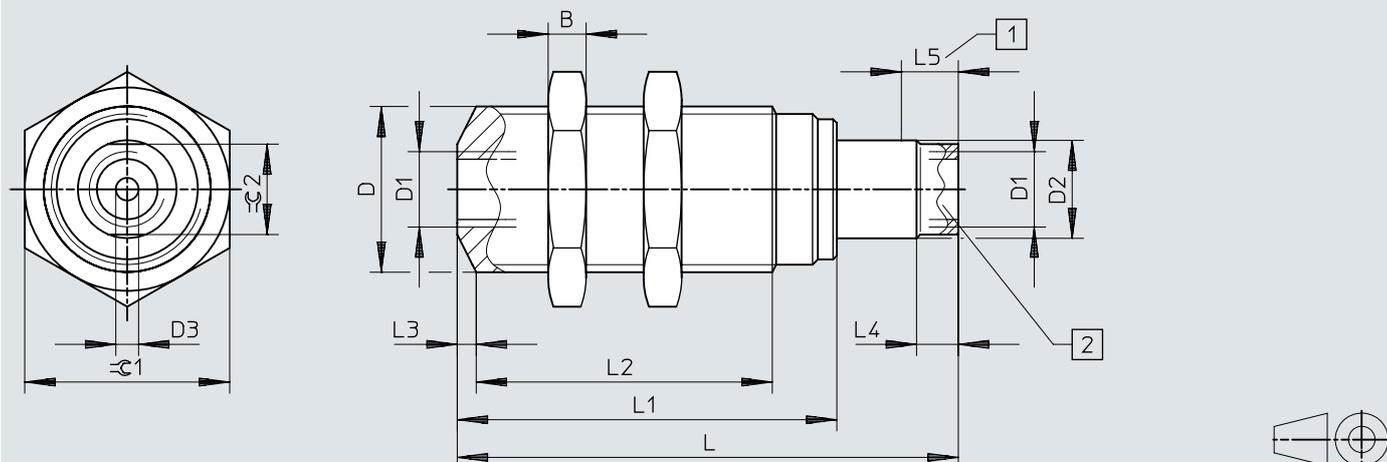
**Materials**

Material housing	Aluminium
Material retaining bracket	Aluminium, POM, High-alloy stainless steel
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)

## Dimensions

### Dimensions – Length compensator VAL

Download CAD data [www.festo.com](http://www.festo.com)



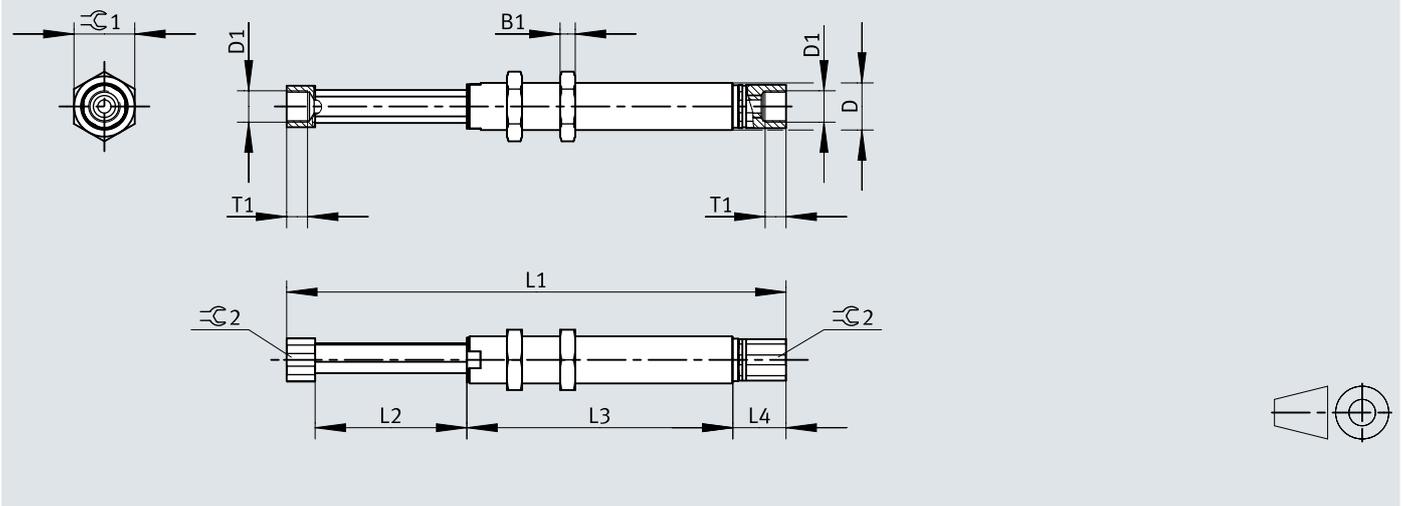
- [1] Spring deflection for length compensation
- [2] Connection for suction gripper

	B	D	D1	D2 ∅	D3 ∅	L	L1	L2	L3	L4	L5	≙1	≙2
VAL-M5-5-F1A	5	M16x1	M5	8	2	46	35	25,5	2	4,5	5	19	7
VAL-1/8-10-F1A	6	M22x1,5	G1/8	13	3	66	50	39	2,5	5,5	10	27	12
VAL-1/4-20-F1A	8	M26x1,5	G1/4	17	4	100	73	60	2,5	6,5	20	32	16

Dimensions

Dimensions – Length compensator VAL-3/8-80-F1A

Download CAD data [www.festo.com](http://www.festo.com)



	B1	D	D1	L1	L2	L3	L4	T1	$\varnothing 1$	$\varnothing 2$
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.	Type
	Female thread G1/8	10 mm	62 g	<b>8214723</b>	<b>VAL-1/8-10-F1A</b>
	Female thread G1/4	20 mm	118 g	<b>8214724</b>	<b>VAL-1/4-20-F1A</b>
	Female thread G3/8	80 mm	275 g	<b>8210510</b>	<b>VAL-3/8-80-F1A</b>
	Female thread M5	5 mm	25 g	<b>8214722</b>	<b>VAL-M5-5-F1A</b>