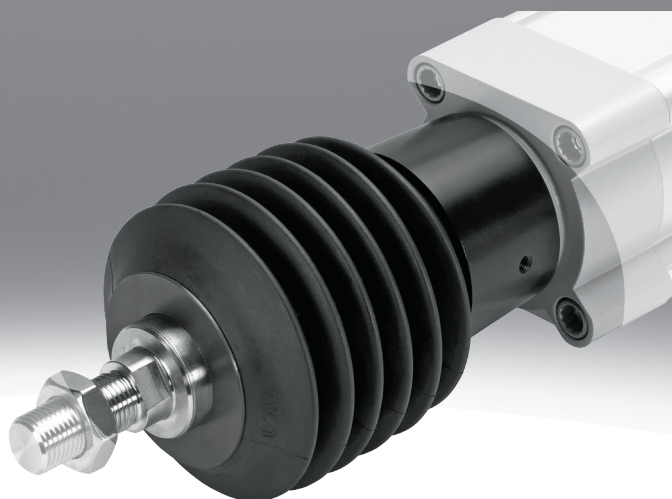


Bellows kit EADB

FESTO



Type code

001	Series	
EADB	Bellows attachment	
002	Allocation	
V2	Version V2	
003	Size [mm]	
32	32	
40	40	
50	50	
63	63	
80	80	

004	Minimum stroke	
S10	10 mm	
S101	101 mm	
S201	201 mm	
S301	301 mm	
S401	401 mm	
005	Maximum stroke [mm]	
100	100	
200	200	
300	300	
400	400	
500	500	
006	Material	
	Nitrile rubber	

Datasheet

At a glance

The bellows protects the piston rod, the seal and the bearing from the effects of a wide range of media, which has a positive impact on the service life of these components.

The bellows kit is a leakage-free system. To prevent unwanted media from being drawn in, the supply and exhaust air for the kit must be ducted via a pressure compensation hole in the connection part.

The kit protects the piston rod, seal and bearing against a wide variety of media, for example:

- Dust
- Chippings
- Oil
- Grease
- Petrol

General technical data

Size	32	40	50	63	80
Stroke range	10 ... 500 mm				
Pneumatic connection	G1/4				
Outside diameter	57 mm		93 mm		
Type of mounting	Push-on, Via threaded pin				
Mounting position	optional				
Ambient temperature	-10 ... 80°C				
Degree of protection	IP65, To IEC 60529				
Media resistance	Dust, Chips, Oils, Grease, Petrol				
Corrosion resistance class CRC ¹⁾	3 - high corrosion stress				

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

Weight for size 32

Size	32				
Stroke range	101 ... 200 mm	10 ... 100 mm	301 ... 400 mm	201 ... 300 mm	401 ... 500 mm
Product weight	155 g	116 g	212 g	173 g	233 g
Moving mass	85 g	46 g	143 g	104 g	163 g

Weight for size 40

Size	40				
Stroke range	101 ... 200 mm	301 ... 400 mm	10 ... 100 mm	201 ... 300 mm	401 ... 500 mm
Product weight	146 g	201 g	109 g	164 g	222 g
Moving mass	82 g	137 g	44 g	99 g	157 g

Weight for size 50

Size	50				
Stroke range	101 ... 200 mm	301 ... 400 mm	10 ... 100 mm	201 ... 300 mm	401 ... 500 mm
Product weight	261 g	377 g	190 g	306 g	402 g
Moving mass	164 g	280 g	93 g	209 g	305 g

Weight for size 63

Size	63				
Stroke range	101 ... 200 mm	10 ... 100 mm	301 ... 400 mm	201 ... 300 mm	401 ... 500 mm
Product weight	265 g	203 g	370 g	307 g	391 g
Moving mass	142 g	79 g	246 g	183 g	267 g

Datasheet

Weight for size 80					
Size	80				
Stroke range	101 ... 200 mm	301 ... 400 mm	10 ... 100 mm	201 ... 300 mm	401 ... 500 mm
Product weight	327 g	423 g	296 g	365 g	444 g
Moving mass	130 g	226 g	72 g	168 g	247 g

Materials	
Material bellows	NBR
Material adapter components	Wrought aluminium alloy, Anodised
Material threaded pin	High-alloy stainless steel

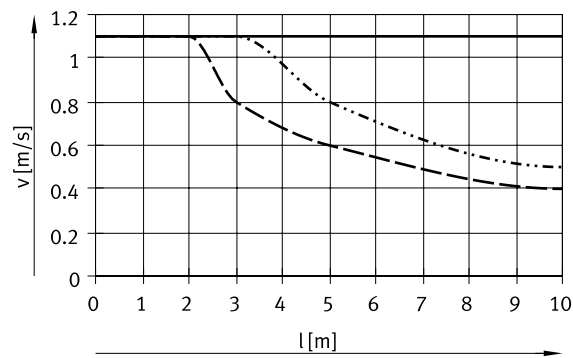
Travel speed v as a function of tubing length l

The bellows kit is a leakage-free system. To prevent unwanted media from being drawn in, the supply and exhaust air for the kit must be ducted via a pressure compensation hole in the connection part.

The pressure generated in the bellows kit by the positioning motion is primarily defined by the travel speed and tubing length. The recommended tube length in relation to the travel speed of the drive can be read from the diagram.

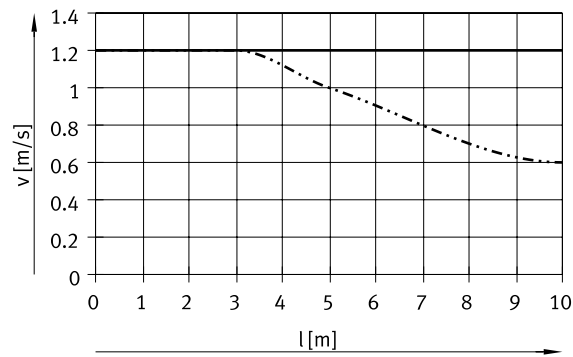
Size 32

EADB-V2-32-S201-300



Size 40

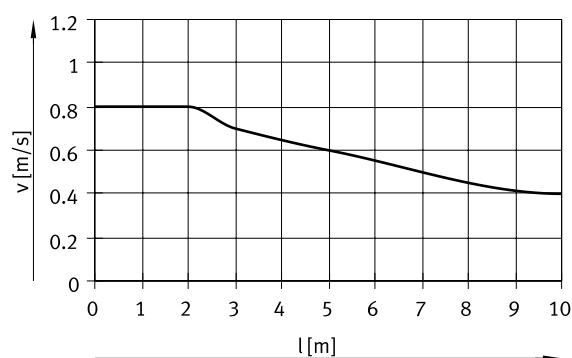
EADB-V2-40-S201-300



Datasheet

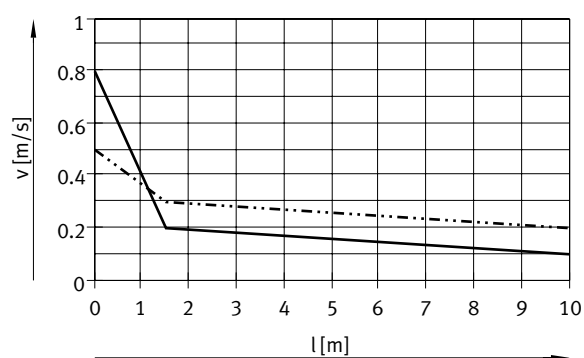
Size 50

EADB-V2-50-S201-300



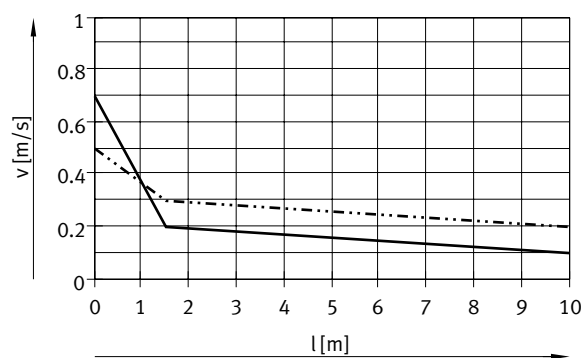
Size 63

EADB-V2-63



Size 80

EADB-V2-80



Datasheet

Tubing size and push-in fitting for pressure compensation opening

The push-in fittings in the following table must be used for the pressure compensation hole.
Silencers can be used as an alternative. This reduces the travel speed slightly.

For sizes 32, 40, 50, 63, 80 and tubing outside diameter of 16 mm:

Push-in fitting: QS-G1/4-12 (part no. 186350)

Push-in sleeve: QSH-16-12 (part no. 153261)

Plastic tubing: PUN-16x2.5

For sizes 32, 63, 80 and tubing outside diameter of 12 mm:

Push-in fitting: QS-G1/4-12 (part no. 186350)

Plastic tubing: PUN-12x2

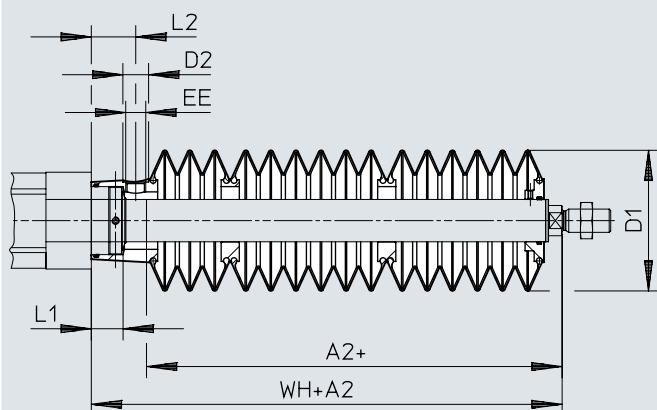
For sizes 32, 40 and tubing outside diameter of 10 mm:

Push-in fitting: QS-G1/4-10 (part no. 186101)

Plastic tubing: PUN-10x1.5

Dimensions

Dimensions – Dimensions

Download CAD data www.festo.com

[1] += plus stroke length

Dimensions

	ESBF-32							
	L ¹⁾	A2 ²⁾	D1 max.	D2 ø	EE	L1	L2	WH+A2
EADB-V2-32-S10-100	10 ... 100	52	57	17	G1/4	15	23,3	77,5
EADB-V2-32-S101-200	101 ... 200	81						106,5
EADB-V2-32-S201-300	201 ... 300	92						117,5
EADB-V2-32-S301-400	301 ... 400	121						146,5
EADB-V2-32-S401-500	401 ... 500	139						164,5

	ESBF-40							
	L ¹⁾	A2 ²⁾	D1 max.	D2 ø	EE	L1	L2	WH+A2
EADB-V2-40-S10-100	10 ... 100	50	57	17	G1/4	15	23,3	79,5
EADB-V2-40-S101-200	101 ... 200	79						108,5
EADB-V2-40-S201-300	201 ... 300	90						119,5
EADB-V2-40-S301-400	301 ... 400	119						148,5
EADB-V2-40-S401-500	401 ... 500	137						166,5

	ESBF-50							
	L ¹⁾	A2 ²⁾	D1 max.	D2 ø	EE	L1	L2	WH+A2
EADB-V2-50-S10-100	10 ... 100	46	93	17	G1/4	21	29,4	82,5
EADB-V2-50-S101-200	101 ... 200	70						106,5
EADB-V2-50-S201-300	201 ... 300	82						118,5
EADB-V2-50-S301-400	301 ... 400	107						143,5
EADB-V2-50-S401-500	401 ... 500	119						155,5

	ESBF-63							
	L ¹⁾	A2 ²⁾	D1 max.	D2 ø	EE	L1	L2	WH+A2
EADB-V2-63-S10-100	10 ... 100	45	93	17	G1/4	25	33,9	82
EADB-V2-63-S101-200	101 ... 200	70						107
EADB-V2-63-S201-300	201 ... 300	82						119
EADB-V2-63-S301-400	301 ... 400	106						143
EADB-V2-63-S401-500	401 ... 500	119						156

	ESBF-80							
	L ¹⁾	A2 ²⁾	D1 max.	D2 ø	EE	L1	L2	WH+A2
EADB-V2-80-S10-100	10 ... 100	48	93	17	G1/4	31	42,9	94
EADB-V2-80-S101-200	101 ... 200	73						119
EADB-V2-80-S201-300	201 ... 300	85						131
EADB-V2-80-S301-400	301 ... 400	109						155
EADB-V2-80-S401-500	401 ... 500	122						168

1) Stroke

2) The dimension corresponds to the E value (piston rod extension) of the cylinder

Ordering data

Ordering data				
Size	Stroke range	Piston rod extension	Part no.	Type
32	10 ... 100 mm	52 mm	2828829	EADB-V2-32-S10-100
	101 ... 200 mm	81 mm	2828830	EADB-V2-32-S101-200
	201 ... 300 mm	92 mm	2828831	EADB-V2-32-S201-300
	301 ... 400 mm	121 mm	2828832	EADB-V2-32-S301-400
	401 ... 500 mm	139 mm	2828833	EADB-V2-32-S401-500
40	10 ... 100 mm	50 mm	2828834	EADB-V2-40-S10-100
	101 ... 200 mm	79 mm	2828835	EADB-V2-40-S101-200
	201 ... 300 mm	90 mm	2828836	EADB-V2-40-S201-300
	301 ... 400 mm	119 mm	2828837	EADB-V2-40-S301-400
	401 ... 500 mm	137 mm	2828838	EADB-V2-40-S401-500
50	10 ... 100 mm	46 mm	2828839	EADB-V2-50-S10-100
	101 ... 200 mm	70 mm	2828840	EADB-V2-50-S101-200
	201 ... 300 mm	82 mm	2828841	EADB-V2-50-S201-300
	301 ... 400 mm	107 mm	2828842	EADB-V2-50-S301-400
	401 ... 500 mm	119 mm	2828843	EADB-V2-50-S401-500
63	10 ... 100 mm	43 mm	1488361	EADB-V2-63-S10-100
	101 ... 200 mm	68 mm	1488362	EADB-V2-63-S101-200
	201 ... 300 mm	80 mm	1488363	EADB-V2-63-S201-300
	301 ... 400 mm	104 mm	1488364	EADB-V2-63-S301-400
	401 ... 500 mm	117 mm	1488365	EADB-V2-63-S401-500
80	10 ... 100 mm	43 mm	1489406	EADB-V2-80-S10-100
	101 ... 200 mm	68 mm	1489407	EADB-V2-80-S101-200
	201 ... 300 mm	80 mm	1489408	EADB-V2-80-S201-300
	301 ... 400 mm	104 mm	1489409	EADB-V2-80-S301-400
	401 ... 500 mm	117 mm	1489410	EADB-V2-80-S401-500