

# E-Zylinder

## E-Cylinder

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#### E-Cylinder (not guided)

Additional guide required, small diameter

By accessing components from the Bansbach gas spring production, a large variety of cylinders can be offered. The E-Cylinder requires an additional guide. The E-Cylinder alone is not designed to absorb side forces.

#### Product features:

- max. weight 600 kg per system
- stroke length from 150 mm to 400 mm
- force per E-Cylinder required to compress: 50N
- several connecting parts
- special E-Cylinder designs on request

stroke	cylinder tube length(EL2)	model	diameter piston rod/ cylinder	max weight per cylinder	speed*	order number incl. connecting parts
150mm	190.5 mm	1	10/15 mm	100 kg	fast	ZE113150-EBEX
	(stroke + 40.5 mm)	2	10/18 mm	150 kg	normal	ZE316150-EBEX
200mm	240.5 mm	1	10/15 mm	100 kg	fast	ZE113200-EBEX
	(stroke + 40.5 mm)	2	10/18 mm	150 kg	normal	ZE316200-EBEX
300mm	340.5 mm	1	10/15 mm	100 kg	fast	ZE113300-EBEX
	(stroke + 40.5 mm)	2	10/18 mm	150 kg	normal	ZE316300-EBEX
400mm	440.5 mm	1	10/15 mm	100 kg	fast	ZE113400-EBEX
	(stroke + 40.5 mm)	2	10/18 mm	150 kg	normal	ZE316400-EBEX

\* dependent also on selected actuation

**Model:**

The pump must be selected in correspondence with the adjustment cylinder model.

Model 1: fast speed (6 - 8 mm per pump rotation), normal load up to 100 kg per Cylinder.

Model 2: high load up to 150 kg per Cylinder, normal speed (4 - 5,3 mm per pump rotation).

**Inserted length calculation:**

The length is always calculated with retracted piston rod.

The complete length of the E-Cylinder is calculated as follows:

$$EL1 = EL2 + ELK + ELZ$$

EL2: length of retracted cylinder (see table above)

ELK: length of connecting part including piston rod (piston rod retracted)

ELZ: length of cylinder side connecting part

**Connecting parts  
E-Cylinder****Connecting parts piston rod:****Stud:**

Order number: EA

Piston rod stud for fixing the piston rod

Diameter: 8 mm +0/-0.090

ELK = 0 mm

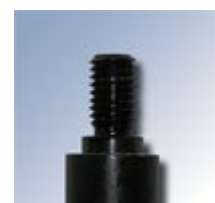
**Thread:**

Order number: EB

Piston rod mounting thread

Thread: M10 x 13

ELK = 0 mm



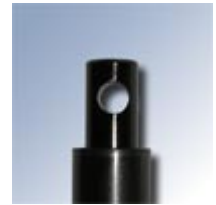
**Mounting hole:**

Order number: EC

Piston rod mounting hole

Ø mounting hole: 6 mm +0.036/-0.000

ELK = 4.5 mm



	Stud	Thread	Mounting hole
Order number	EA	EB	EC
Length connecting part (ELK)	0mm	0mm	4.5mm

**Connecting parts cylinder side:****Mounting hole:**

Order number: EX

Hole for mounting the cylinder

Ø mounting hole: 9 mm +0.036/-0.000

Angular connector for tube

ELK = 16,5 mm

**Angular connector:**

Order number: EY

Cylinder fixing stud

Angular connector for tube

ELK =15 mm

**Linear connector:**

Order number: EZ

Cylinder fixing stud

Linear tube connector

ELK =15 mm



	Mounting hole	Angular	Linear
Order number	EX	EY	EZ
Length of connecting part (ELZ)	16,5mm	15mm	15mm