

Round cylinder EG-PK

FESTO



Characteristics

At a glance

Link [eg-pk](#)

Their slim design makes these cylinders particularly suitable for a dense arrangement, e.g. in IVD-POC devices, test fields for keyboards or mobile phones.

- Minimal space requirement and low weight
- Limited cylinder force and low air consumption
- Ready-to-connect: Barbed connector connection for direct mounting of plastic tubing
- Without position sensing

Type code

001	Series	
EG	Round cylinder, single-acting	
002	Piston diameter [mm]	
2.5	2.5	
4	4	
6	6	

003	Stroke [mm]	
5	5	
10	10	
15	15	
20	20	
25	25	
004	Pneumatic connection	
PK-2	Barbed fitting 2 mm	
PK-3	Barbed fitting 3 mm	

Datasheet

General technical data

General technical data											
Piston diameter	2.5 mm		4 mm				6 mm				
Stroke	5 mm	10 mm	5 mm	10 mm	15 mm	20 mm	5 mm	10 mm	15 mm	20 mm	25 mm
Structural design	Piston Piston rod Cylinder barrel										
Variants	Piston rod at one end										
Mode of operation	Pushing Single-acting										
Pneumatic connection	PK-2						PK-3				
Type of mounting	With locknut										
Piston rod thread	–		M2				M3				
Piston rod end ¹⁾	No thread		External thread								
Cushioning	No cushioning						At one end Not adjustable				
Position sensing	None										
Mounting position	Any										
Product weight	2 g		4 g	5 g		6 g	19 g	20 g		23 g	24 g

1) EG-2,5: Piston rod diameter 1 mm

Operating and environmental conditions

Operating and environmental conditions			
Piston diameter	2.5 mm	4 mm	6 mm
Operating pressure	3.5 ... 7 bar		3 ... 7 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [7:::]		
Ambient temperature	5 ... 60°C		
Corrosion resistance class (CRC) ¹⁾	1 - Low corrosion stress		

1) For more information, visit www.festo.com/x/topic/kbk

Forces - EG-2,5 ... 4

Piston diameter	2.5 mm		4 mm			
Stroke	5 mm	10 mm	5 mm	10 mm	15 mm	20 mm
Theoretical force at 6 bar, advancing	1.9 N		5 N	4.9 N		
Theoretical min. spring return force	0.5 N		1.3 N	1.5 N	1.8 N	1.5 N
Theoretical max. spring return force	1 N		2.5 N	2.6 N		

Filter cartridge - EG-6

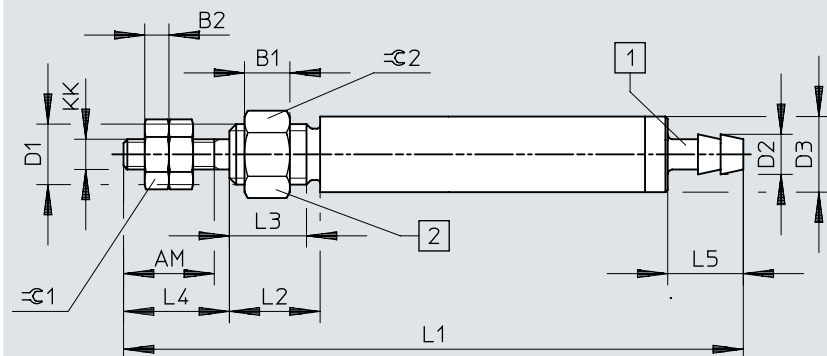
Piston diameter	6 mm									
Stroke	5 mm	10 mm	15 mm	20 mm	25 mm					
Theoretical force at 6 bar, advancing	11.8 N									
Theoretical min. spring return force	4.1 N	3.1 N	2 N	3.1 N	2.5 N					
Theoretical max. spring return force	5.2 N									

Materials

Materials			
Piston diameter	2.5 mm	4 mm	6 mm
Cover material	High-alloy steel		
Piston rod material	high-alloy stainless steel	High-alloy steel	high-alloy stainless steel
Material of cylinder barrel	Brass, nickel-plated		high-alloy stainless steel
Seals material	NBR	TPE-U(PU)	NBR
Note on materials	RoHS compliant		
LABS (PWIS) conformity	VDMA24364-B2-L		

Dimensions

Dimensions – EG-2,5 ... 4

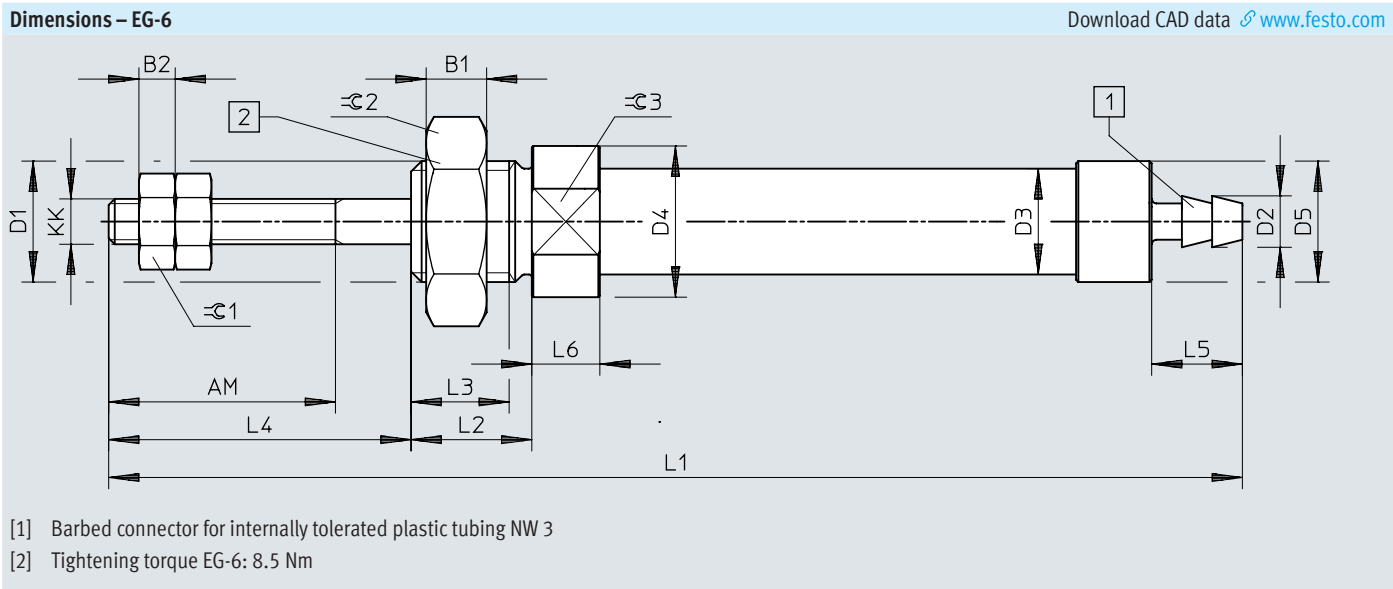
Download CAD data www.festo.com

[1] Barbed connector for internally tolerated plastic tubing NW

[2] Tightening torque EG-2,5: 0.25 Nm / EG-4: 0.85 Nm

	AM	B1	B2	D1	D2 Ø	D3 Ø	KK	L1	L2	L3	L4	L5	⌀1	⌀2
EG-2,5-5-PK-2	–	1,6	–	M2,5	2,65	3,5	Ø1	29	3,5	3	1,5	5	–	4
EG-2,5-10-PK-2								38						
EG-4-5-PK-2	6	3	1,6	M4	2,65	5	M2	41	6	5	7	5	4	5
EG-4-10-PK-2								50						
EG-4-15-PK-2								59						
EG-4-20-PK-2								64						

Dimensions



	AM	B1	B2	D1	D2 Ø	D3 Ø	D4 Ø	D5 Ø	KK	L1	L2	L3	L4	L5	L6	Ø1	Ø2	Ø3
EG-6-5-PK-3	15	4	2,4	M8x1	3,4	7	10	8	M3	75	8	6,5	20	6	4,5	5,5	12	9
EG-6-10-PK-3										80								
EG-6-15-PK-3										85								
EG-6-20-PK-3										102								
EG-6-25-PK-3										107								

Ordering data

Ordering data					
	Piston diameter	Stroke	Pneumatic connection	Part no.	Type
	2.5 mm	5 mm	PK-2	15883	EG-2,5-5-PK-2
		10 mm		15884	EG-2,5-10-PK-2
	4 mm	5 mm		15885	EG-4-5-PK-2
		10 mm		15886	EG-4-10-PK-2
		15 mm		15887	EG-4-15-PK-2
		20 mm		15888	EG-4-20-PK-2
	6 mm	5 mm	PK-3	15891	EG-6-5-PK-3
		10 mm		15892	EG-6-10-PK-3
		15 mm		15893	EG-6-15-PK-3
		20 mm		15894	EG-6-20-PK-3
		25 mm		15895	EG-6-25-PK-3

Accessories

Plastic tubing PUN						
	Description	Material of pneumatic tubing	Color	Supplied length [m]	Part no.	Type
	for EG-2,5 and EG-4	TPE-U(PU)	Blue	50 m	159660	PUN-3X0,5-BL
				500 m	525745	PUN-3X0,5-BL-500
			Yellow	50 m	178416	PUN-3X0,5-GE
			Green		178423	PUN-3X0,5-GN
			Red		178409	PUN-3X0,5-RT
			Black		159661	PUN-3X0,5-SW
					500 m	553936
			Silver	50 m	152583	PUN-3X0,5-SI
				500 m	525738	PUN-3X0,5-SI-500
	for EG-6		Blue	50 m	159662	PUN-4X0,75-BL
				500 m	525746	PUN-4X0,75-BL-500
			Yellow	50 m	178417	PUN-4X0,75-GE
			Green		178424	PUN-4X0,75-GN
			Red		178410	PUN-4X0,75-RT
			Black		159663	PUN-4X0,75-SW
					500 m	553937
			Silver	50 m	152584	PUN-4X0,75-SI
				500 m	525739	PUN-4X0,75-SI-500