

FESTO

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Deutschland
+49 711 347-0
www.festo.com

Assembly instructions

8172520
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[8172522]



8172520

Translation of the original instructions

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1 Applicable documents

All available documents for the product → www.festo.com/sp.

Document	Product	Contents
Operating instructions	Electric cylinder with guide unit, EPCC-BS-KF	–
Operating instructions	Electric cylinder unit EPSCS	–

Tab. 1: Applicable documents

2 Safety

2.1 Safety instructions

- Only mount the product on components that are in a condition to be safely operated.
- Observe the tightening torques. Unless otherwise specified, the tolerance is $\pm 20\%$.
- Leave the lubricating film on the guide rods (A).
- Do not touch the guide rods (A). Traces of hand perspiration will result in surface corrosion.

2.2 Intended use

The guide unit serves as a guide and anti-torsion device for electric cylinder EPCC and electric cylinder unit EPSCS.

3 Additional information

- Contact the regional Festo contact if you have technical problems → www.festo.com.
- Accessories → www.festo.com/catalogue.

4 Product Range Overview

4.1 Scope of delivery

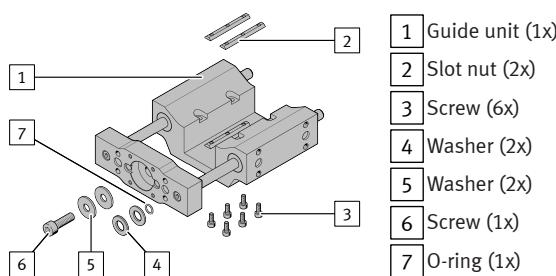
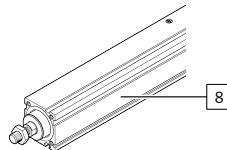


Fig.1

i
The washer [4] is the washer with the larger inner diameter.

4.2 Not in scope of delivery



8 Actuator (1x)
Electric cylinder EPCC;
Electric cylinder unit EPSCS

Fig.2

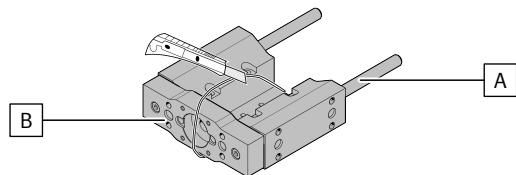
5 Assembly
5.1 Preparation

Fig.3

- Remove the transportation lock. Do not pull out the yoke plate (B) and guide rods (A).

Requirement:

- The piston rod of the actuator [8] is in the retracted end position.
Without motor or with motor without brake:
- Move the piston rod of the actuator [8] manually to the retracted end position.
For motor with brake:
- Use the motor to move the piston rod of the actuator [8] to the retracted end position.
- Disconnect the power supply to the motor and the controller and secure to prevent reconnection. It is not sufficient to cancel the controller enable signal.

5.2 Fastening actuator

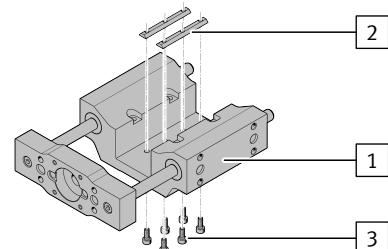


Fig.4

- Loosely fasten the slot nuts [2] with the screws [3] to the guide unit [1].

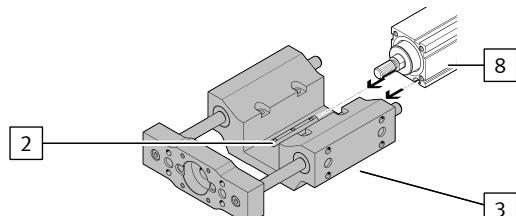


Fig.5

- Push the actuator [8] completely onto the slot nuts [2].
- Do not tighten the screws [3].

5.3 Mounting yoke plate

5.3.1 With male thread on the piston rod

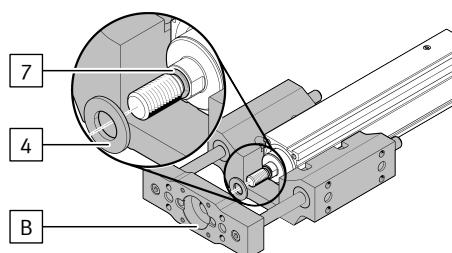


Fig.6

- Place the O-ring [7] in the thread undercut of the piston rod.
- Place the washer [4] over the O-ring [7].
The washer [4] is centred by the O-ring [7].

EAGF-P2-KF	-32	-45	-60
4 Washer [mm]	$\varnothing 8$	$\varnothing 10$	$\varnothing 12$
7 O-ring	6x1.2-N-NBR70	7.5x1.5-N-NBR70	9x2-N-NBR70

Tab. 2: Mounting attachments

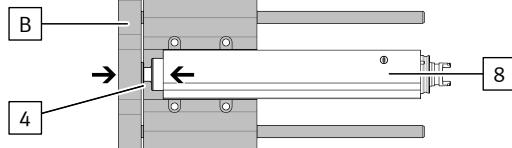


Fig.7

1. Push the yoke plate (B) onto the housing as far as the stop.
2. Push the actuator (8) towards the yoke plate (B).
 - ↳ The washer (4) is the stop surface.

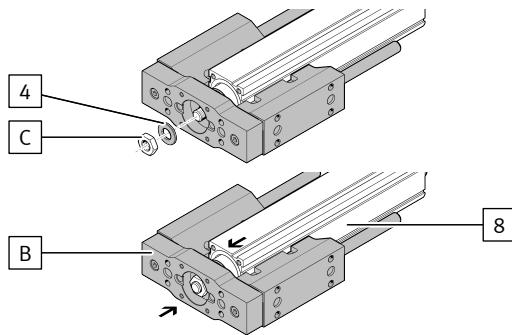


Fig.8

- Screw the washer (4) and the nut (C) onto the piston rod male thread. Do not tighten the nut (C).
 - ↳ The actuator (8) is in the retracted end position.



The nut (C) is enclosed with the electric cylinder (8).

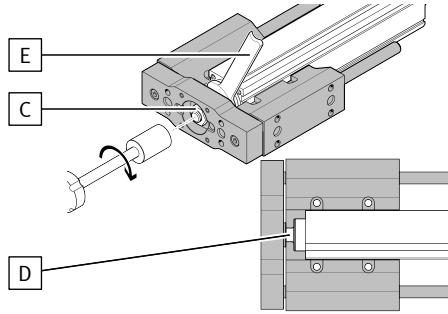


Fig.9

- Tighten the nut (C). Counterhold the piston rod at the spanner flat (D) with an open-ended spanner (E). Do not transfer torque to the piston rod.

EAGF-P2-KF	-32	-45	-60
(C) Nut	M8	M10 x 1.25	M12 x 1.25
[Nm]	4	10	15
\approx	13	16	18
(D) Spanner flat	\approx	9	10
			13

Tab. 3: Mounting attachments

5.3.2 With female thread on the piston rod

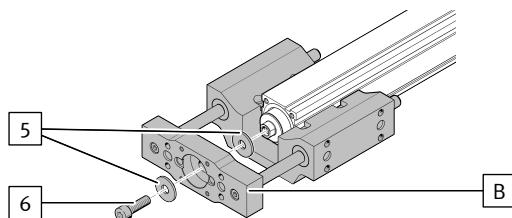


Fig.10

1. Place a washer (5) under the screw (6).
2. Place a washer (5) between the yoke plate (B) and the piston rod.
3. Screw the screw (6) into the female thread. Do not tighten the screw (6).

EAGF-P2-KF	-32	-45	-60	
(5) Washer	[mm]	\varnothing 6	\varnothing 8	\varnothing 10

Tab. 4: Mounting attachments

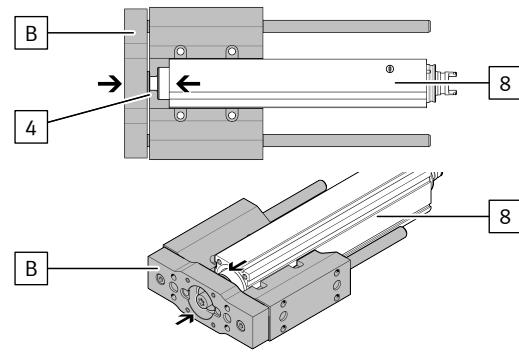


Fig.11

1. Push the yoke plate (B) onto the housing as far as the stop.
2. Push the actuator (8) towards the yoke plate (B).
 - ↳ The washer (5) is the stop surface.
 - ↳ The actuator (8) is in the retracted end position.

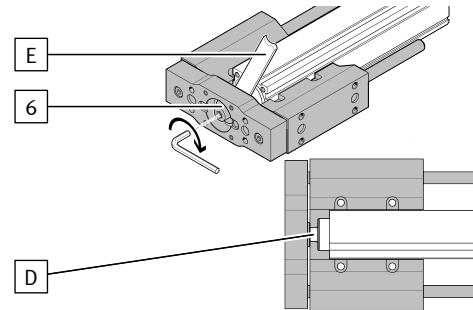


Fig.12

- Tighten the screw (6). Counterhold the piston rod at the spanner flat (D) with an open-ended spanner (E). Do not transfer torque to the piston rod.

EAGF-P2-KF	-32	-45	-60
(6) Screw	M6 x 20	M8 x 25	M10 x 30
[Nm]	4	10	15
\approx	T30	T45	T50
(D) Spanner flat	\approx	9	10
			13

Tab. 5: Mounting attachments

5.4 Mounting guide unit

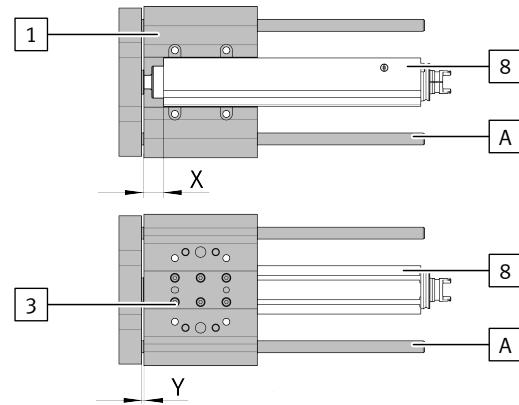


Fig.13

1. Set the distance X between the fronts of the actuator (8) and the guide unit (1) \rightarrow Table.
2. Turn over the actuator (8) and the guide unit (1).
 - ↳ The distance Y is maintained \rightarrow Table.
3. Align the actuator (8) parallel to the guide rods (A).
4. Tighten the screws (3).

EAGF-P2-KF	-32	-45	-60
(3) Screw	M3 x 8	M3 x 10	M5 x 10
[Nm]	1	1	5
\approx	T10	T10	T25
X	[mm]	13 ₋₁	17.4 ₋₁
Y	[mm]	1.5 ⁺¹	1.5 ⁺¹
			1.5 ⁺¹

Tab. 6: Mounting attachments

6 Technical data

The technical data of the actuator (8) are changed after mounting the guide unit. Observe the operating instructions EPCC-BS-KF, electric cylinder with guide unit.