

EAGF-P2-KF
Guide unit

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Assembly instructions

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Translation of the original instructions
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1 Applicable documents

Table with 3 columns: Document, Product, Contents. Rows include Operating instructions for Electric cylinder with guide unit (EPCC-BS-KF) and Electric cylinder unit (EPCS).

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 ± 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

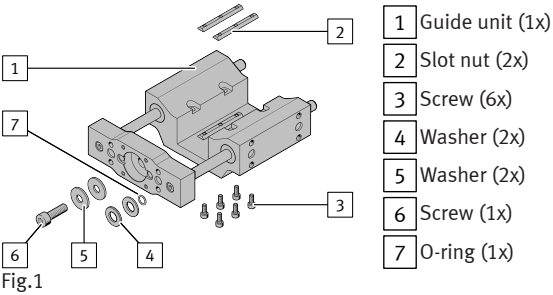
The guide unit serves as a guide and anti-torsion device for electric cylinder EPCC and electric cylinder unit EPCS.

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



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

4.2 Not in scope of delivery

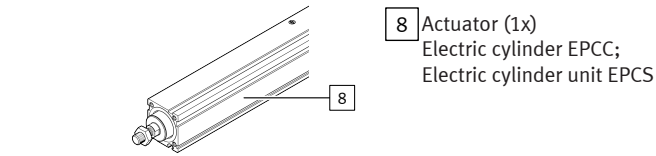


Fig.2

5 Assembly

5.1 Preparation

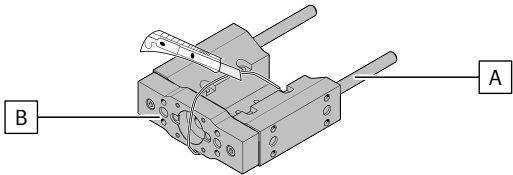


Fig.3

- 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

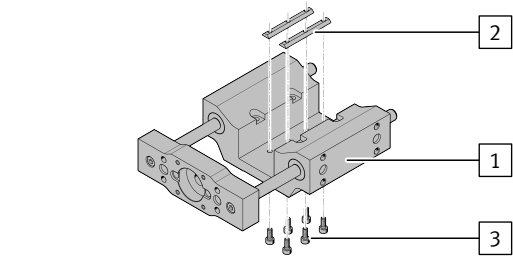


Fig.4

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

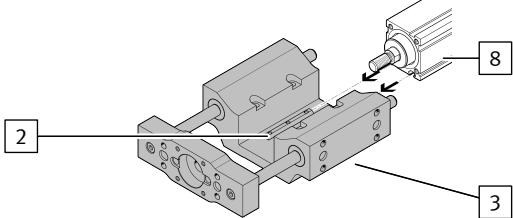


Fig.5

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

5.3 Mounting yoke plate

5.3.1 With male thread on the piston rod

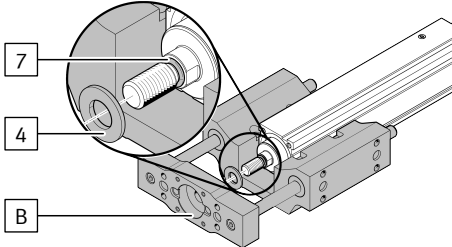


Fig.6

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

Table with 4 columns: EAGF-P2-KF, -32, -45, -60. Rows specify dimensions for washer [4] and O-ring [7].

Tab. 2: Mounting attachments

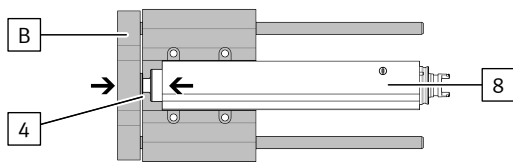


Fig.7

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.

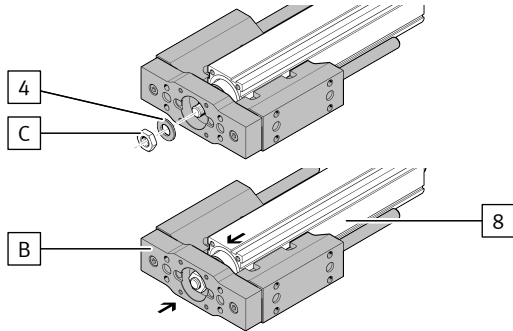


Fig.8

- 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.

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

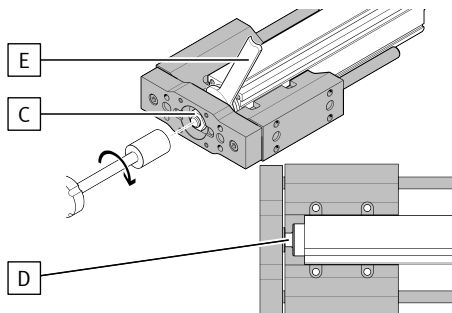


Fig.9

- 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
	⌚	13	16	18
(D) Spanner flat	⌚	9	10	13

Tab. 3: Mounting attachments

5.3.2 With female thread on the piston rod

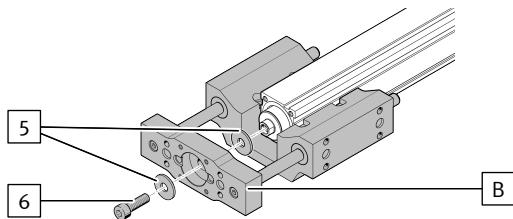


Fig.10

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]	∅ 6	∅ 8	∅ 10

Tab. 4: Mounting attachments

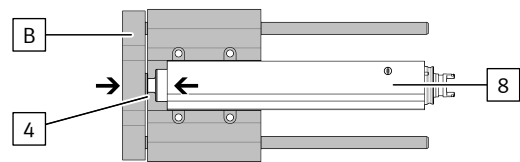


Fig.11

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.

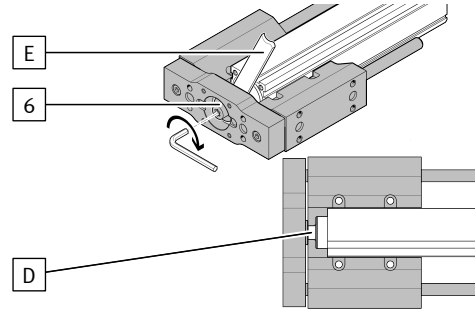


Fig.12

- 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
	⌚	T30	T45	T50
(D) Spanner flat	⌚	9	10	13

Tab. 5: Mounting attachments

5.4 Mounting guide unit

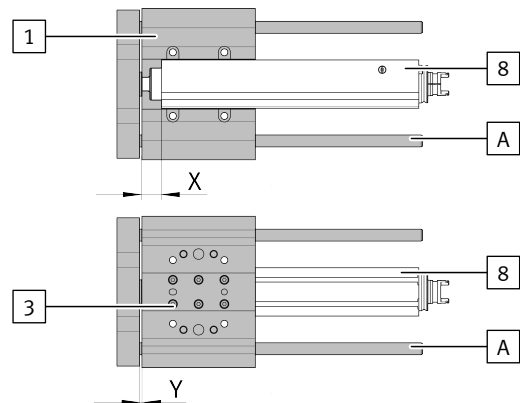


Fig.13

1. Set the distance X between the fronts of the actuator [8] and the guide unit [1] → Table.
2. Turn over the actuator [8] and the guide unit [1].
↳ The distance Y is maintained → 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
	⌚	T10	T10	T25
X	[mm]	13 ₋₁	17,4 ₋₁	17 ₋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.