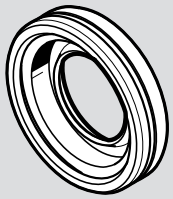
EASS-RS-...-10 ... 20-...-B7

Radial shaft seal



FESTO

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Assembly instructions

8186677
2025-01b
[8186679]

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Original instructions

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1 Applicable documents

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

Document	Product
Operating instruction	Servo motor EMMT-AS
Operating instruction	Servo motor EMMT-EC

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.

2.2 Intended use

The radial shaft seal enables degree of protection IP65 at the shaft of a servo motor EMMT-AS/-EC.

EASS-RS-T-A-4P-...-B7		EMMT-AS	EMMT-EC
Inside diameter	Outside diameter		
10	26	40	40
15	30	60	–
20	40	80	–
20	40	100	–

Tab. 2: Allocation table of sizes

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel have knowledge and experience in handling electric drives and axes.

3 Additional information

– Information on the use of radial shaft seals ➔ www.festo.com/sp
– Contact the regional Festo contact if you have technical problems ➔ www.festo.com.
– Accessories and spare parts ➔ www.festo.com/catalogue.

4 Product Range Overview

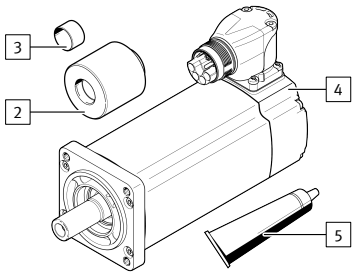
4.1 Scope of delivery



1 Radial shaft seal (1x)

Fig. 1: Scope of delivery

4.2 Not in scope of delivery



2 Press-fitted piece (1x)
3 Protective sleeve (1x)
4 Servo motor (1x) EMMT-AS/-EC
5 Lubricating grease (1x) Klüberquiet BQR 78-102, Fa. Klüber Lubrication, München

Fig. 2: Not included in the scope of delivery

5 Mounting

5.1 Preparing assembly

- Manufacture a protective sleeve 3 and a press-fitted piece 2 in accordance with the dimensional drawing.

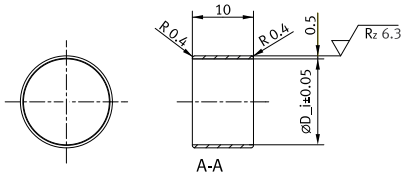


Fig. 3: Dimensional drawing of protective sleeve

		D_i
EASS-RS-T-A-4P-10-26-B7	[mm]	8.1
EASS-RS-T-A-4P-15-30-B7	[mm]	14.1
EASS-RS-T-A-4P-20-40-B7	[mm]	19.1
General tolerance		In accordance with ISO 2768-mH
Material recommendation		ES-BE 1.4301/X5CrNi18-10

Tab. 3: Protective sleeve

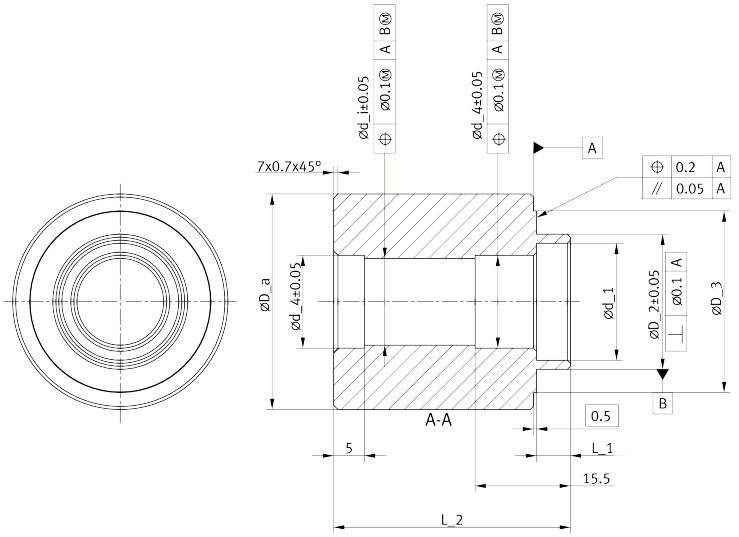


Fig. 4: Press-fitted piece

		D_a	d_i	d_1	D_2	D_3	d_4	L_1	L_2
EASS-RS-T-A-4P-10-26-B7	[mm]	30	8.1	13	16.9	25.5	10.1	5.5	38.5
EASS-RS-T-A-4P-15-30-B7	[mm]	35	14.1	19	21.9	29.5	15.2	5.5	38.5
EASS-RS-T-A-4P-20-40-B7	[mm]	44	19.1	24	29.9	39.5	20.2	5.5	38.5
General tolerance		In accordance with ISO 2768-mH							
Material recommendation		EN AW-6023, EN AW-Al Si1Sn1MgBi							

Tab. 4: Press-fitted piece

5.2 Mounting radial shaft seal

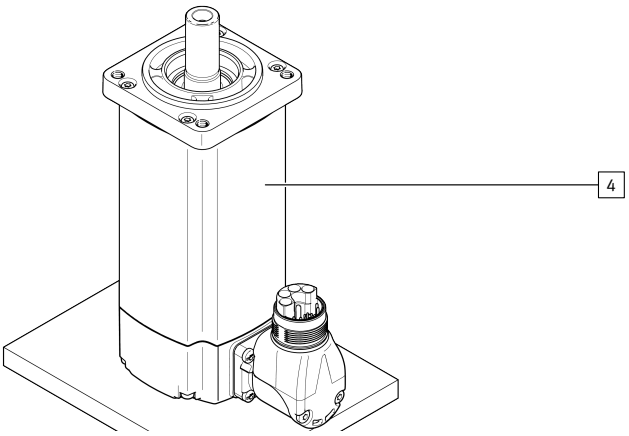


Fig. 5: Place the motor in the mounting position

1. Position the motor [4] upright on a flat and stable surface. Use lateral supports if necessary.
2. Remove the featherkey if installed.

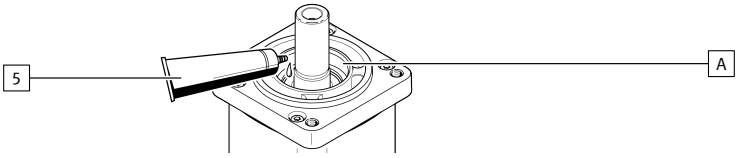


Fig. 6: Lubricate flange

- Apply the specified amount of lubricating grease [5] to the flange [A].

EMMT-AS	EMMT-EC	Lubricating grease [5] [g], [cm³]
40	40	0.2
60	–	0.3
80	–	1.3
100	–	1.8

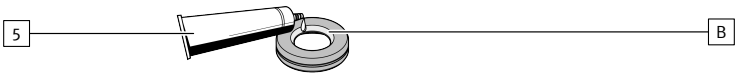


Fig. 7: Lubricating sealing ring

- Apply a small amount of lubricating grease [5] to the surface [B].

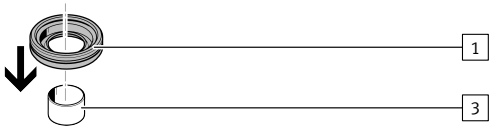


Fig. 8: Mounting sealing ring

- Position the radial shaft seal [1] in the centre of the protective sleeve [3].

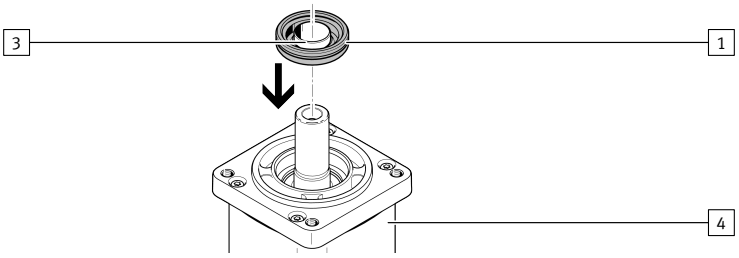


Fig. 9: Preparing press fitting

- Slide the radial shaft seal [1] and the protective sleeve [3] onto the shaft to the stop.

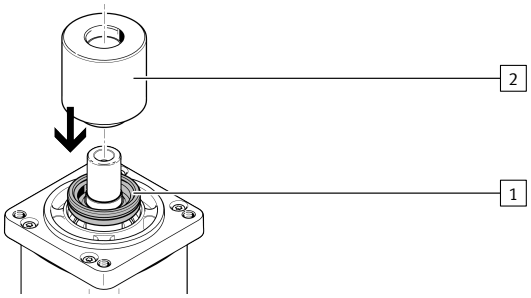


Fig. 10: Pressing in seal

1. Position the press-fitted piece [2] on the shaft.
2. Press the radial shaft seal [1] firmly into the flange with the press-fitted piece [2].
   - The radial shaft seal [1] is fully seated in the flange.

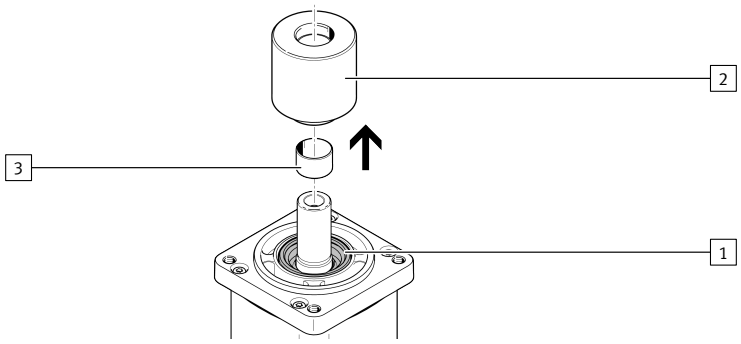


Fig. 11: Remove assembly tools

1. Remove the press-fitted piece [2].
2. Remove the protective sleeve [3].
3. Mount the featherkey if present.

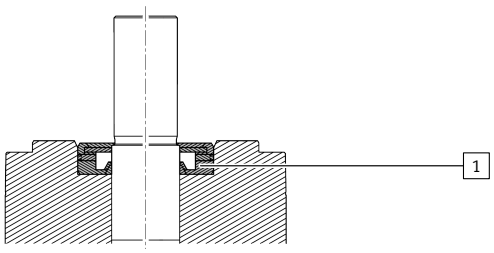


Fig. 12: Assembly result

The radial shaft seal [1] is fully seated in the flange and the sealing rim is undamaged.

6 Maintenance

6.1 Replacement

1. Depending on the conditions of use, replace the radial shaft seal [1] after 5000 operating hours at the latest.
2. Every time the radial shaft seal [1] is replaced use an additional shim with a thickness of 0.5 mm.
   - The axial displacement from the shims prevents the sealing rim from running in the track of the old radial shaft seal.

EMMT-AS	EMMT-EC	Shim
40	40	DIN 988 PS19x26x0,5
60	–	DIN 988 PS22x30x0,5
80	–	DIN 988 PS28x40x0,5
100	–	DIN 988 PS28x40x0,5

Tab. 5: Shim

6.2 Cleaning

- Remove excess grease deposits on the flange and in shaft end with a soft cloth. Cleaning agents include all non-abrasive media.

7 Removal

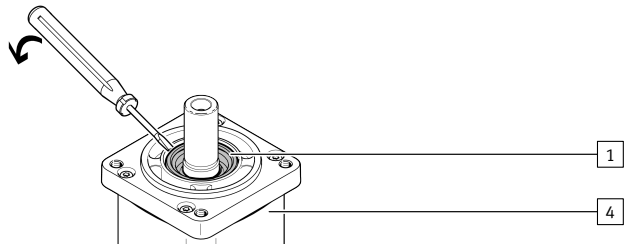


Fig. 13: Removing radial shaft seal

1. Lever out the radial shaft seal [1] without scratching the flange or the shaft.
2. Leave any shims in place.