

ESS

Suction cup complete

FESTO

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Instructions | Assembly

8122169
2019-11c
[8122171]



Translation of the original instructions

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1 Applicable Documents

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

Documents	Product	Contents
Instructions	Suction cup holder ESH	Assembly
Instructions	Vacuum suction cup ESV	Assembly

Tab. 1

2 Safety

2.1 Safety Instructions

- Only assemble the product on components that are in a condition to be safely operated.

2.2 Intended Use

The suction cup ESS is used for gripping by means of vacuum generation.

3 Additional information

- Vacuum suction cup ESV → www.festo.com/catalogue.

4 Assembly

Mounting examples using round suction cups:

4.1 Suction Cup with Diameters of 2 mm and 4 mm



Fig. 1

- Mount the suction cup dry and free of grease.

4.2 Suction Cup with Diameters of 6 mm and 8 mm



Fig. 2

- Mount the suction cup dry and free of grease.

4.3 Suction Cup with Diameters of 10 mm and 15 mm



Fig. 3

- Mount the suction cup.

Suction cup	Screw	Tightening torque
∅10 mm and ∅15 mm	M4x0.7	0.5 ... 1 Nm

Tab. 2

4.4 Suction Cup with Diameter of 20 mm... 50 mm

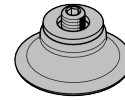


Fig. 4

1. Mount the suction cup.

Suction cup	Screw	Tightening torque
∅20 mm ... ∅50 mm	M6x1	2 ... 2.7 Nm
≤ 10 x 30 mm (oval suction cup shape)	M6x1	0.27 ... 0.33 Nm

Tab. 3

2. If the vacuum suction cup is worn or the holding effect of the suction cup is reduced, the vacuum suction cup ESV can optionally be replaced.

4.5 Suction Cup with Diameter of 60 mm

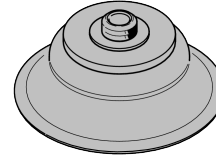


Fig. 5

1. Mount the suction cup.

Suction cup	Screw	Tightening torque
∅60 mm	M10x1.5	5 ... 7 Nm
≥ 15 x 45 mm (oval suction cup shape)	M10x1.5	5 ... 7 Nm

Tab. 4

2. If the vacuum suction cup is worn or the holding effect of the suction cup is reduced, the vacuum suction cup ESV can optionally be replaced.

4.6 Suction Cup with Diameters of 80 mm and 100 mm

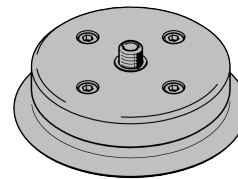


Fig. 6

1. Mount the suction cup.

Suction cup	Screw	Tightening torque
∅80 mm and ∅100 mm	M10x1.5	5 ... 7 Nm
≥ 15 x 45 mm (oval suction cup shape)	M10x1.5	5 ... 7 Nm

Tab. 5

2. If the vacuum suction cup is worn or the holding effect of the suction cup is reduced, the vacuum suction cup ESV can optionally be replaced.

4.7 Suction Cup with Diameters of 150 mm and 200 mm

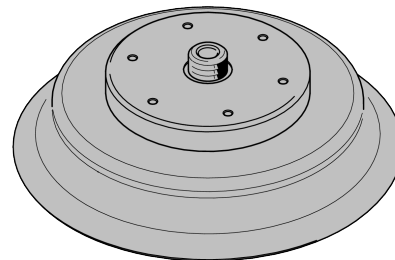


Fig. 7

1. Mount the suction cup.

Suction cup	Screw	Tightening torque
∅150 mm and ∅200 mm	M20x2	9 ... 10 Nm

Tab. 6

2. If the vacuum suction cup is worn or the holding effect of the suction cup is reduced, the vacuum suction cup ESV can optionally be replaced.