Piston rod attachments

★/☆ Festo core product range
Covers 80% of your automation tasks

★ Generally ready for shipping ex works in 24 hours
Held in stock in 13 service centres worldwide
More than 2200 product

★☆ Generally ready for shipping ex works in 5 days
Assembled for you in 4 service centres worldwide
Up to $6 \times 10^{12}$ variants per product series

Worldwide: Always in stock
Superb: Festo quality at an attractive price
Easy: Reduces procurement and storing complexity

Look for the star!
### Mounting attachments and accessories

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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</table>
| 1 | Rod eye SGS
   Rod eyes are maintenance-free due to the combination of steel and PTFE-bronze material in the swivel bearing. Corresponds to ISO 12240-4 dimensional series K.  |
| 2 | Rod eye CRSGS
   Corrosion and acid-resistant design. Corresponds to ISO 12240-4 dimensional series K.  |
| 2 | Rod clevis SGA
   Rod clevises are used in combination with the rod eye SGS for spherical connection of cylinders.  |
| 3 | Rod clevis SG
   This rod clevis is fitted to the threaded end of the piston rod and permits a swivelling movement of the cylinder in one plane. Corresponds to ISO 8140 or DIN 71752.  |
| 3 | Rod clevis CRS
   Corrosion and acid-resistant design. Corresponds to ISO 8140 or DIN 71752.  |
| 4 | Self-aligning rod coupler FK
   Rod couplers link the piston rod end of all cylinder types to the machine parts to be moved. This compensates for radial and angular deviations (misalignment).  |
| 5 | Self-aligning rod coupler CRSFK
   Corrosion and acid-resistant design.  |
| 6 | Coupling piece KSG
   Coupling pieces link the piston rod end of all cylinder types to the machine parts to be moved. They compensate radial misalignments up to ±1 mm.  |
| 6 | Coupling piece KSZ
   For cylinders with non-rotating piston rods. With this coupling piece, a cylinder can be connected with positional stability to the component being moved in order to compensate for radial deviation.  |
| 7 | Hex nut MSK
   Based on and/or corresponds to ISO 8675.  |
| 8 | Adapter AD
   Specially for through, hollow piston rods, e.g. for connecting vacuum generators. |
## Piston rod attachments

### Product range overview

<table>
<thead>
<tr>
<th>Piston rod thread</th>
<th>Rod eye</th>
<th>Rod clevis</th>
<th>Self-aligning rod coupler</th>
<th>Coupling piece</th>
<th>Hex nut</th>
<th>Adapter</th>
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<td>SGA-...</td>
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<td>CRS6-...</td>
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### Technical data

1) Only to be attached to the piston rod in conjunction with the rod eye SGS.

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Rod eyes SGS

Scope of delivery:
1 rod eye, 1 hex nut to DIN 439

Material:
Galvanised steel
RoHS-compliant

### Dimensions and ordering data

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1) Max. play DR up to max. friction torque ML possible.
## Rod eyes SGS

### Technical data

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\(^2\) Max. friction torque ML up to max. play DR possible.

\(^3\) Corrosion resistance class CRC 1 to Festo standard FN 940070

\(^4\) The following applies for the ball:

- Corrosion resistance class CRC 0 to Festo standard FN 940070
- Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

No corrosion stress. Applies to small, optically irrelevant standard parts such as threaded pins, circlips and clamping sleeves which are usually only available in a phosphated or burnished version (and possibly oiled) as well as to ball bearings (for components < CRC 3) and plain bearings.

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**Festo core product range**

- Generally ready for shipping ex works in 24 hours
- Generally ready for shipping ex works in 5 days

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2019/04 – Subject to change


5
# Rod eyes CRSGS, stainless steel

## Technical data

### Rod eye CRSGS

**Scope of delivery:**
1 rod eye, 1 hex nut to DIN 439

**Material:**
High-alloy steel
RoHS-compliant

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## Dimensions and ordering data

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¹) Max. play DR up to max. friction torque ML possible.
2) Max. friction torque ML up to max. play DR possible.
3) Corrosion resistance class CRC to Festo standard FN 940070
   High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.
4) The following applies for the ball:
   Corrosion resistance class CRC to Festo standard FN 940070
   Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

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¹) Max. play DR up to max. friction torque ML possible.
²) Max. friction torque ML up to max. play DR possible.
³) Corrosion resistance class CRC to Festo standard FN 940070
   High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.
⁴) The following applies for the ball:
   Corrosion resistance class CRC to Festo standard FN 940070
   Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).
Rod clevises SGA

Scope of delivery:
1 rod clevis, 1 pivot pin
and 1 retaining clip

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant

The rod clevis SGA is used in combination with the rod eye SGS for spherical mounting of cylinders.

### Dimensions and ordering data

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1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive modules).
Rod clevises SG

Scope of delivery:
1 rod clevis, 1 hinged spring pin, 1 hex nut (M4: DIN 934, M6 ... M16: DIN 439)

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant

Dimensions and ordering data

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¹) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Festo core product range
★ Generally ready for shipping ex works in 24 hours
★ Generally ready for shipping ex works in 5 days
**Rod clevises SG**

**Technical data**

**Scope of delivery:**
1 rod clevis, 1 bolt, 1 retaining ring
1 hex nut (DIN 439)

**Material:**
Galvanised steel
Free of copper and PTFE
RoHS-compliant

**Dimensions and ordering data**

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1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive tummions).

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**Festo core product range**

★ Generally ready for shipping ex works in 24 hours
☆ Generally ready for shipping ex works in 5 days

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**Internet:** [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...)

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2019/04 – Subject to change
Rod clevises CRSG, stainless steel

Rod clevis CRSG

Scope of delivery:
1 rod clevis, 1 pivot pin,
1 hex nut to DIN 439

Material:
High-alloy steel
Free of copper and PTFE
RoHS-compliant

Dimensions and ordering data

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1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (also FN 940082) using appropriate media.
Self-aligning rod couplers FK

Scope of delivery:
1 self-aligning rod coupler,
1 hex nut to DIN 439

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant

Dimensions and ordering data

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1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Festo core product range

☆ Generally ready for shipping ex works in 24 hours
☆ Generally ready for shipping ex works in 5 days
Self-aligning rod couplers CRFK, stainless steel

Self-aligning rod coupler CRFK

Scope of delivery:
1 self-aligning rod coupler

Material:
Housing, nut, threaded pin: High-alloy stainless steel
Cap: Elastomer
Free of copper and PTFE
RoHS-compliant

Dimensions and ordering data

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<th>D3</th>
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KK CRC1) Tensile and compressive load max. Axial play Radial deviation Ambient temperature

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KK CRC1) Weight Part No. Type

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1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (also FN 940082) using appropriate media.

Internet: www.festo.com/catalogue/...
Coupling pieces KSG

Technical data

These coupling pieces connect the piston–rod thread of all types of cylinders to machine components which need to be driven. The pieces can compensate for radial alignment deviations of up to 1 mm.

Scope of delivery:
1 flange plate, 1 threaded coupling

Material:
Galvanised steel
Free of copper and PTFE
RoHS-compliant

Dimensions and ordering data

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1) For mounting screws with standard threads and strength class 8.8
2) Corrosion resistance class CRC 1 to Festo standard FN 940570
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).
**Coupling pieces KSZ**

**Technical data**

**Coupling piece KSZ**

for non-rotating piston rods with male threads

These coupling pieces can be used to connect a cylinder with a non-rotating piston rod to another component with a defined orientation without rotating either the cylinder or other component.

**Scope of delivery:**
1 flange plate, 1 threaded coupling

**Material:**
Galvanised steel
Free of copper and PTFE
RoHS-compliant

**Dimensions and ordering data**

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1) For mounting screws with standard threads and strength class 8.8
2) For use with lock nut on piston rod
3) Torque which coupling can transmit with coefficient of friction μ 0.1 and 10x safety margin at max. permissible tightening torque
4) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

**Note**

The torque on the coupling piece must not exceed the permissible torque on the cylinder.
The mounting screws should be tightened evenly.
Hex nuts MSK

Material:
Galvanised steel

### Technical data

#### Dimensions and ordering data

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¹) Corrosion resistance class CRC 2 to Festo standard FN 940070
   Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

²) Packaging unit quantity
Adapter AD

Material:
Anodised aluminium

### Adapter AD

**Technical data**

1. E.g. hollow piston rod
2. Vacuum generator

### Dimensions and ordering data

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