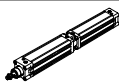
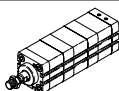


## Tandem/high-force cylinders

**FESTO**



## Product range overview

| Function      | Design                                                                            | Type | Piston ø               | Stroke    | Position sensing | Piston rod       |                    |
|---------------|-----------------------------------------------------------------------------------|------|------------------------|-----------|------------------|------------------|--------------------|
|               |                                                                                   |      | [mm]                   | [mm]      | A                | With male thread | With female thread |
| Double-acting | Tandem cylinder                                                                   |      |                        |           |                  |                  |                    |
|               |  | DNCT | 32, 40, 50             | 2 ... 500 | ■                | ■                | —                  |
|               |                                                                                   |      | 63, 80, 100, 125       | 3 ... 500 |                  |                  |                    |
|               |                                                                                   |      |                        |           |                  |                  |                    |
|               | High-force cylinder                                                               |      |                        |           |                  |                  |                    |
|               |  | ADNH | 2x 25, 3x 25, 4x 25    | 1 ... 150 | ■                | ■                | ■                  |
|               |                                                                                   |      | 2x 40, 3x 40, 4x 40    | 1 ... 150 |                  |                  |                    |
|               |                                                                                   |      | 2x 63, 3x 63, 4x 63    | 1 ... 150 |                  |                  |                    |
|               |                                                                                   |      | 2x 100, 3x 100, 4x 100 | 1 ... 150 |                  |                  |                    |

## Functional principle

## General

By arranging 2, 3 or 4 cylinders with the same piston diameter and stroke in series, the force in the advance stroke (thrust) can be doubled, tripled or quadrupled in comparison to a conventional cylinder.

## DNCT

- A maximum of 2 cylinders can be combined
- As with the thrust, the force of the return stroke is double that of a single cylinder with corresponding piston diameter.

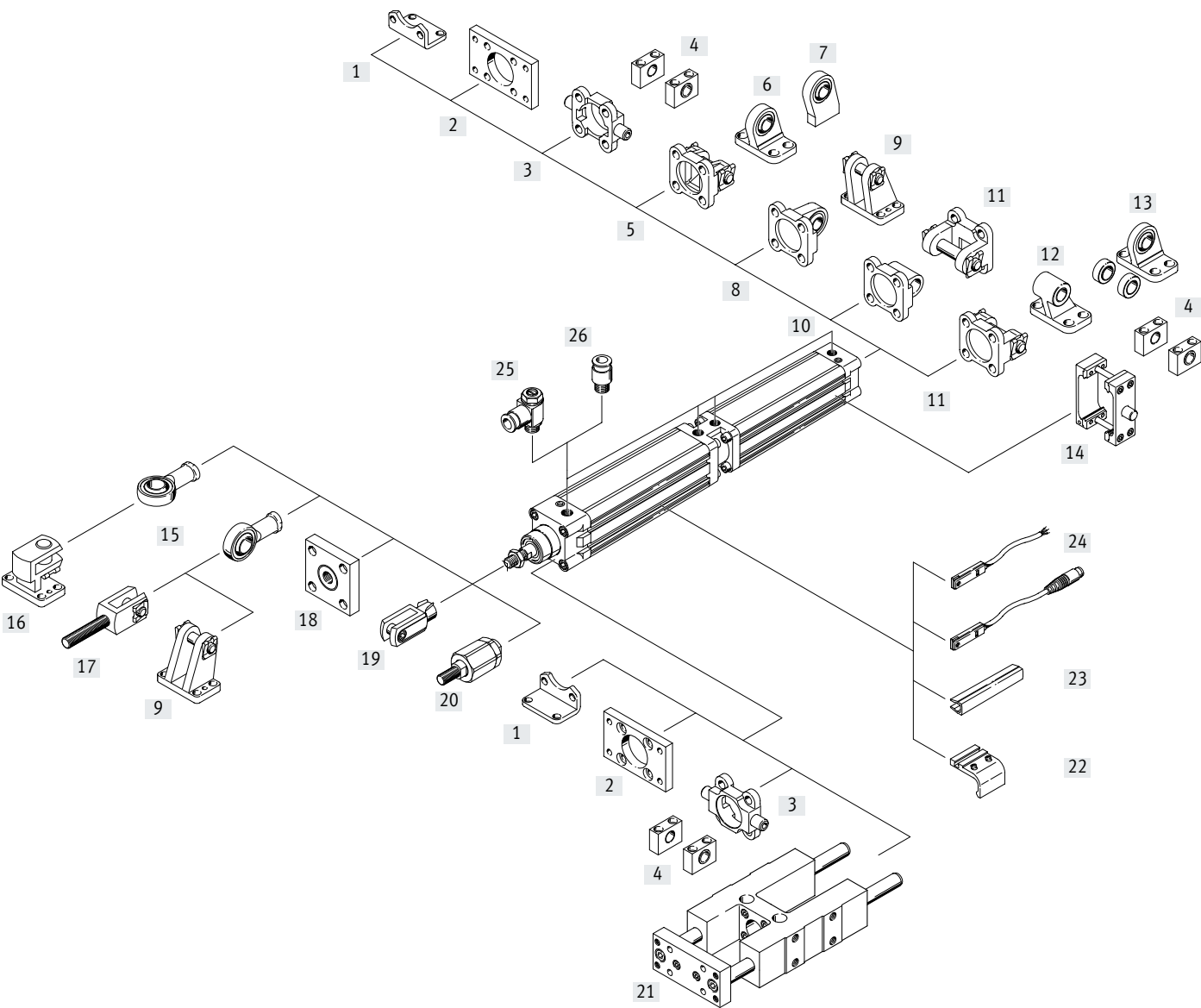
## ADNH

- A maximum of 4 cylinders can be combined
- Owing to the internal compressed air distribution, a total of just 2 connections is required to pressurise all cylinders.
- The force of the return stroke corresponds to that of a single cylinder with corresponding piston diameter.
- Operation with external limit stop only. The cylinder should not advance to the forward end position.

## Product range overview

| Type                | Cushioning          |                   | Male thread<br>extended<br>K2 | Special thread<br>on the piston rod<br>K5 | Extended<br>piston rod<br>K8 | Heat-resistant up to<br>120°C<br>S6 | → Page/Internet |
|---------------------|---------------------|-------------------|-------------------------------|-------------------------------------------|------------------------------|-------------------------------------|-----------------|
|                     | Non-adjustable<br>P | Adjustable<br>PPV |                               |                                           |                              |                                     |                 |
| Tandem cylinder     |                     |                   |                               |                                           |                              |                                     |                 |
| DNCT                | —                   | ■                 | —                             | —                                         | —                            | ■                                   | 4               |
| High-force cylinder |                     |                   |                               |                                           |                              |                                     |                 |
| ADNH                | ■                   | —                 | ■                             | ■                                         | ■                            | ■                                   | 20              |

Peripherals overview



## Peripherals overview

| Mounting components and accessories |                                    | Description                                                                           | → Page/Internet |
|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|-----------------|
| [1]                                 | Foot mounting<br>HNC               | For bearing and end caps                                                              | 10              |
| [2]                                 | Flange mounting<br>FNC             | For bearing or end caps                                                               | 10              |
| [3]                                 | Trunnion flange<br>ZNCF            | For bearing or end caps                                                               | 11              |
| [4]                                 | Trunnion support<br>LNZG           | For trunnion flange ZNCF                                                              | 13              |
| [5]                                 | Swivel flange<br>SNC               | For end caps                                                                          | 13              |
| [6]                                 | Clevis foot<br>LSNG                | With spherical bearing                                                                | 16              |
| [7]                                 | Clevis foot<br>LSNSG               | Weld-on, with spherical bearing                                                       | 16              |
| [8]                                 | Swivel flange<br>SNCS              | With spherical bearing for end caps                                                   | 15              |
| [9]                                 | Clevis foot<br>LBG                 | For swivel flange SNCS                                                                | 16              |
| [10]                                | Swivel flange<br>SNCL              | For end caps                                                                          | 14              |
| [11]                                | Swivel flange<br>SNCB              | For end caps                                                                          | 14              |
| [12]                                | Clevis foot<br>LNG                 | For swivel flange SNCB                                                                | 16              |
| [13]                                | Clevis foot<br>LSN                 | With spherical bearing                                                                | 16              |
| [14]                                | Trunnion flange kit<br>DAMT        | For mounting anywhere along the cylinder profile barrel                               | 12              |
| [15]                                | Rod eye<br>SGS                     | With spherical bearing                                                                | 17              |
| [16]                                | Right-angle clevis foot<br>LQG     | For rod eye SGS                                                                       | 16              |
| [17]                                | Rod clevis<br>SGA                  | With male thread                                                                      | 17              |
| [18]                                | Coupling piece<br>KSG              | To compensate for radial deviations                                                   | 20              |
| [19]                                | Rod clevis<br>SG                   | Permits a swivelling movement of the cylinder in one plane                            | 17              |
| [20]                                | Self-aligning rod coupler<br>FK    | To compensate for radial and angular deviations                                       | 17              |
| [21]                                | Guide unit<br>FENG                 | For protecting standards-based cylinders against rotation at high torques             | 18              |
| [22]                                | Mounting kit<br>SMB-8-FENG         | For attaching proximity switch SMT-8 to cylinders in combination with guide unit FENG | 18              |
| [23]                                | Slot cover<br>ABP-5-S              | For protecting the sensor cables and the sensor slots from contamination              | 19              |
| [24]                                | Proximity switch<br>SME/SMT-8      | Can be integrated in the cylinder profile barrel                                      | 19              |
| [25]                                | One-way flow control valve<br>GRLA | For regulating speed                                                                  | 17              |
| [26]                                | Push-in fitting<br>QS              | For connecting tubing with standard O.D.                                              | qs              |

## Type codes

|      |                                                       |  |
|------|-------------------------------------------------------|--|
| 001  | Series                                                |  |
| DNCT | Tandem cylinder, double-acting, standard hole pattern |  |

|     |                 |  |
|-----|-----------------|--|
| 002 | Piston diameter |  |
| 32  | 32              |  |
| 40  | 40              |  |
| 50  | 50              |  |
| 63  | 63              |  |
| 80  | 80              |  |
| 100 | 100             |  |
| 125 | 125             |  |

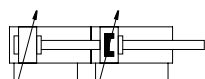
|     |           |  |
|-----|-----------|--|
| 003 | Stroke    |  |
| ... | 2 ... 500 |  |

|     |                                               |  |
|-----|-----------------------------------------------|--|
| 004 | Cushioning                                    |  |
| PPV | Pneumatic cushioning, adjustable at both ends |  |

|     |                      |  |
|-----|----------------------|--|
| 005 | Position sensing     |  |
| A   | For proximity sensor |  |

|     |                                  |  |
|-----|----------------------------------|--|
| 006 | Temperature resistance           |  |
|     | Standard                         |  |
| S6  | Heat-resistant seals max. 120 °C |  |

## Data sheet

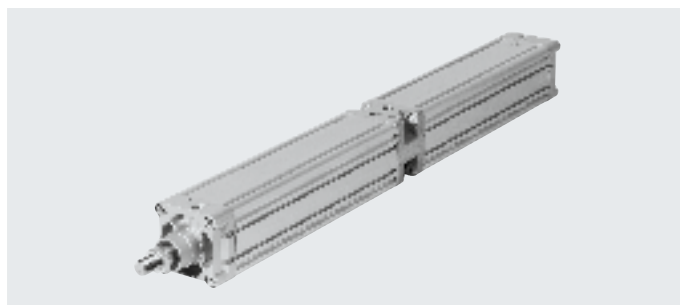


Based on standard

- DIN ISO 6431
- VDMA 24562



www.festo.com



- $\varnothing$  - Diameter  
32 ... 125 mm
- $l$  - Stroke length  
 $\varnothing$  32 ... 50:  
2 ... 500 mm  
 $\varnothing$  63 ... 125:  
3 ... 500 mm

| General technical data |                                               |          |         |         |         |         |       |
|------------------------|-----------------------------------------------|----------|---------|---------|---------|---------|-------|
| Piston $\varnothing$   | 32                                            | 40       | 50      | 63      | 80      | 100     | 125   |
| Pneumatic connection   | G1/8                                          | G1/4     | G1/4    | G3/8    | G3/8    | G1/2    | G1/2  |
| Piston rod thread      | M10x1.25                                      | M12x1.25 | M16x1.5 | M16x1.5 | M20x1.5 | M20x1.5 | M27x2 |
| Design                 | Piston                                        |          |         |         |         |         |       |
|                        | Piston rod                                    |          |         |         |         |         |       |
|                        | Cylinder barrel                               |          |         |         |         |         |       |
| Cushioning             | Pneumatic cushioning, adjustable at both ends |          |         |         |         |         |       |
| Cushioning length [mm] | 20                                            | 20       | 22      | 22      | 32      | 32      | 42    |
| Position sensing       | Via proximity switch                          |          |         |         |         |         |       |
| Type of mounting       | With female thread                            |          |         |         |         |         |       |
|                        | Via accessories                               |          |         |         |         |         |       |
| Mounting position      | Any                                           |          |         |         |         |         |       |

| Operating conditions               |                                                                                            |            |    |    |    |     |     |
|------------------------------------|--------------------------------------------------------------------------------------------|------------|----|----|----|-----|-----|
| Piston $\varnothing$               | 32                                                                                         | 40         | 50 | 63 | 80 | 100 | 125 |
| Operating medium                   | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |            |    |    |    |     |     |
| Note on operating/<br>pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |            |    |    |    |     |     |
| Operating pressure                 | [MPa]                                                                                      | 0.06 ... 1 |    |    |    |     |     |
|                                    | [bar]                                                                                      | 0.6 ... 10 |    |    |    |     |     |

| Environmental conditions                     |               |            |
|----------------------------------------------|---------------|------------|
| Tandem cylinder                              | Basic version | S6         |
| Ambient temperature <sup>1)</sup> [°C]       | -20 ... +80   | 0 ... +120 |
| Corrosion resistance class CRC <sup>2)</sup> | 2             | 2          |

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 2 to Festo standard FN 940070

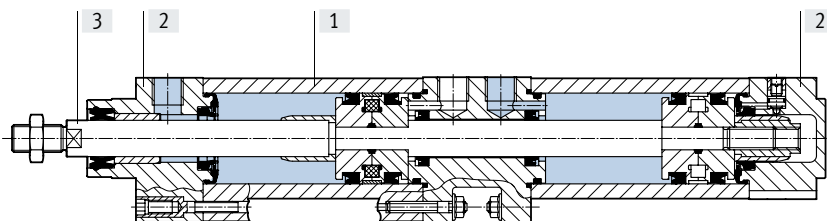
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

| Forces [N] and impact energy [J]        |     |      |      |      |      |      |       |
|-----------------------------------------|-----|------|------|------|------|------|-------|
| Piston $\varnothing$                    | 32  | 40   | 50   | 63   | 80   | 100  | 125   |
| Theoretical force at 6 bar, advancing   | 898 | 1387 | 2168 | 3552 | 5737 | 9130 | 14244 |
| Theoretical force at 6 bar, retracting  | 830 | 1266 | 1980 | 3364 | 5442 | 8836 | 13762 |
| Max. impact energy at the end positions | 0.1 | 0.2  | 0.2  | 0.5  | 0.9  | 1.2  | 5     |

## Data sheet

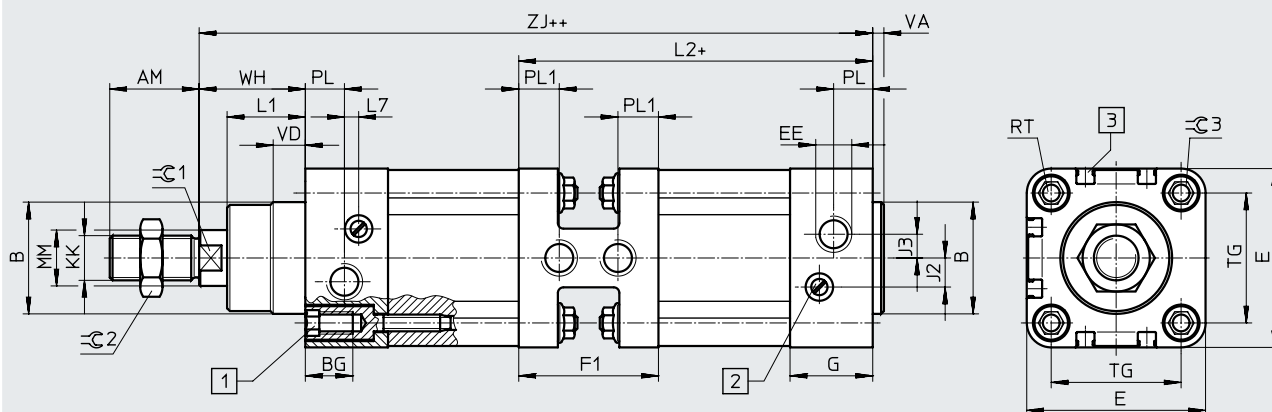
### Materials

Sectional view



| Tandem cylinder         | Basic version                           | S6                                      |
|-------------------------|-----------------------------------------|-----------------------------------------|
| [1] Cylinder barrel     | Smooth-anodised wrought aluminium alloy | Smooth-anodised wrought aluminium alloy |
| [2] Bearing and end cap | Die-cast aluminium                      | Die-cast aluminium                      |
| [3] Piston rod          | High-alloy steel                        | High-alloy steel                        |
| - Seals                 | Polyurethane, nitrile rubber            | Fluoro rubber                           |
| Note on materials       |                                         | RoHS-compliant                          |

### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)


- [1] Socket head screw with female thread for mounting components
- [2] Adjusting screw for adjustable end-position cushioning
- [3] Sensor slot for proximity switch

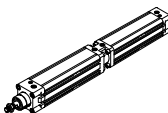
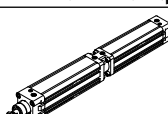
+ = plus stroke length  
++ = plus 2x stroke length

| ∅    | AM | B<br>∅<br>d11 | BG | E    | EE   | F1   | G    | J2   | J3  | KK       | L1   | L2    | L7   |
|------|----|---------------|----|------|------|------|------|------|-----|----------|------|-------|------|
| [mm] |    |               |    |      |      |      |      |      |     |          |      |       |      |
| 32   | 22 | 30            | 16 | 45.5 | G1/8 | 35   | 25.1 | 6    | 5.2 | M10x1.25 | 18   | 104.2 | 3.3  |
| 40   | 24 | 35            | 16 | 54   | G1/4 | 47.6 | 29.6 | 8    | 6   | M12x1.25 | 21.5 | 123.5 | 3.6  |
| 50   | 32 | 40            | 17 | 64   | G1/4 | 50   | 29.6 | 10.4 | 8.5 | M16x1.5  | 28   | 126.7 | 5.1  |
| 63   | 32 | 45            | 17 | 75   | G3/8 | 64.4 | 35.6 | 12.4 | 10  | M16x1.5  | 28.5 | 150   | 6.6  |
| 80   | 40 | 45            | 17 | 93   | G3/8 | 68   | 35.9 | 12.5 | 8   | M20x1.5  | 34.7 | 161.7 | 10.5 |
| 100  | 40 | 55            | 17 | 110  | G1/2 | 75   | 38.8 | 12   | 10  | M20x1.5  | 38.2 | 178.1 | 8    |
| 125  | 54 | 60            | 22 | 134  | G1/2 | 70   | 44.7 | 13   | 8   | M27x2    | 46   | 188.5 | 14   |

| ∅    | MM<br>∅ | PL   | PL1  | RT  | TG   | VA | VD   | WH                        | ZJ                         | ⌀1 | ⌀2 | ⌀3 |
|------|---------|------|------|-----|------|----|------|---------------------------|----------------------------|----|----|----|
| [mm] |         |      |      |     |      |    |      |                           |                            |    |    |    |
| 32   | 12      | 15.1 | 9    | M6  | 32.5 | 4  | 10   | 26.2 <sub>+0.7/-0.7</sub> | 199.6 <sub>+0.7/-0.7</sub> | 10 | 16 | 6  |
| 40   | 16      | 14   | 13.3 | M6  | 38   | 4  | 10.5 | 30 <sub>+0.7/-0.9</sub>   | 229.4 <sub>+0.7/-0.9</sub> | 13 | 18 | 6  |
| 50   | 20      | 14   | 14.5 | M8  | 46.5 | 4  | 11.5 | 37.7 <sub>+0.7/-0.9</sub> | 241.1 <sub>+0.7/-0.9</sub> | 17 | 24 | 8  |
| 63   | 20      | 17   | 17.2 | M8  | 56.5 | 4  | 15   | 38.2 <sub>+0.7/-0.9</sub> | 273.9 <sub>+0.7/-0.9</sub> | 17 | 24 | 8  |
| 80   | 25      | 16.4 | 19   | M10 | 72   | 4  | 15.7 | 46.2 <sub>+0.7/-1.4</sub> | 301.6 <sub>+0.7/-1.4</sub> | 22 | 30 | 6  |
| 100  | 25      | 18.8 | 21   | M10 | 89   | 4  | 19.2 | 50.1 <sub>+0.7/-1.4</sub> | 331.3 <sub>+0.7/-1.4</sub> | 22 | 30 | 6  |
| 125  | 32      | 18   | 18.5 | M12 | 110  | 6  | 20.5 | 65.3 <sub>+0.7/-1.4</sub> | 372.3 <sub>+0.7/-1.4</sub> | 27 | 36 | 8  |



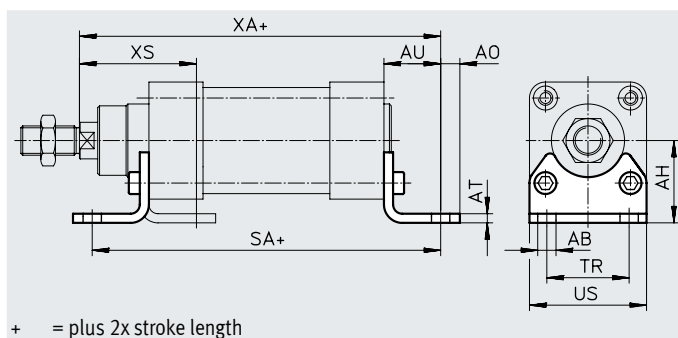
## Data sheet

| Ordering data                                                                     |                  |                |          |                       |
|-----------------------------------------------------------------------------------|------------------|----------------|----------|-----------------------|
| Type                                                                              | Piston ø<br>[mm] | Stroke<br>[mm] | Part no. | Type                  |
| <b>Basic version</b>                                                              |                  |                |          |                       |
|  | 32               | 2 ... 500      | 191106   | DNCT-32-...-PPV-A     |
|                                                                                   | 40               | 2 ... 500      | 191107   | DNCT-40-...-PPV-A     |
|                                                                                   | 50               | 2 ... 500      | 191108   | DNCT-50-...-PPV-A     |
|                                                                                   | 63               | 3 ... 500      | 191109   | DNCT-63-...-PPV-A     |
|                                                                                   | 80               | 3 ... 500      | 191110   | DNCT-80-...-PPV-A     |
|                                                                                   | 100              | 3 ... 500      | 191111   | DNCT-100-...-PPV-A    |
|                                                                                   | 125              | 3 ... 500      | 191112   | DNCT-125-...-PPV-A    |
| <b>S6 – Heat-resistant up to 120°C</b>                                            |                  |                |          |                       |
|  | 32               | 2 ... 500      | 191210   | DNCT-32-...-PPV-A-S6  |
|                                                                                   | 40               | 2 ... 500      | 191211   | DNCT-40-...-PPV-A-S6  |
|                                                                                   | 50               | 2 ... 500      | 191212   | DNCT-50-...-PPV-A-S6  |
|                                                                                   | 63               | 3 ... 500      | 191213   | DNCT-63-...-PPV-A-S6  |
|                                                                                   | 80               | 3 ... 500      | 191214   | DNCT-80-...-PPV-A-S6  |
|                                                                                   | 100              | 3 ... 500      | 191215   | DNCT-100-...-PPV-A-S6 |
|                                                                                   | 125              | 3 ... 500      | 191216   | DNCT-125-...-PPV-A-S6 |

## Accessories

### Foot mounting HNC

Material:  
Galvanised steel  
Free of copper and PTFE



#### Dimensions and ordering data

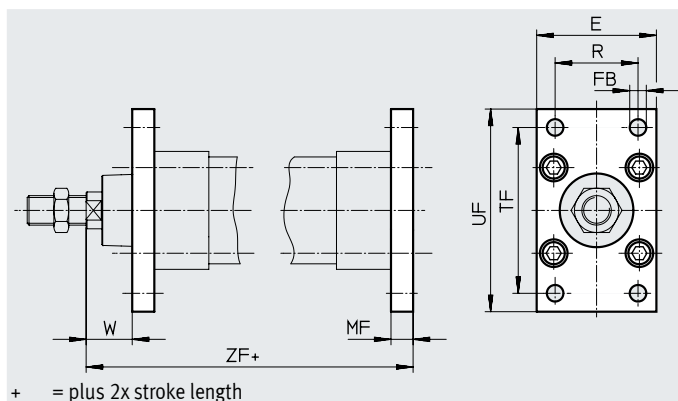
| For Ø | AB<br>Ø | AH | AO   | AT | AU | SA    | TR | US  | XA    | XS  | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type    |
|-------|---------|----|------|----|----|-------|----|-----|-------|-----|-------------------|---------------|----------|---------|
| [mm]  |         |    |      |    |    |       |    |     |       |     |                   |               |          |         |
| 32    | 7       | 32 | 6.5  | 4  | 24 | 221.4 | 32 | 45  | 223.6 | 45  | 2                 | 144           | 174369   | HNC-32  |
| 40    | 10      | 36 | 9    | 4  | 28 | 255.4 | 36 | 54  | 257.4 | 53  | 2                 | 193           | 174370   | HNC-40  |
| 50    | 10      | 45 | 9.5  | 5  | 32 | 267.4 | 45 | 64  | 273.1 | 62  | 2                 | 353           | 174371   | HNC-50  |
| 63    | 10      | 50 | 12.5 | 5  | 32 | 299.7 | 50 | 75  | 305.9 | 63  | 2                 | 436           | 174372   | HNC-63  |
| 80    | 12      | 63 | 15   | 6  | 41 | 337.4 | 63 | 93  | 342.6 | 81  | 2                 | 829           | 174373   | HNC-80  |
| 100   | 14.5    | 71 | 17.5 | 6  | 41 | 363.2 | 75 | 110 | 372.3 | 86  | 2                 | 1009          | 174374   | HNC-100 |
| 125   | 16.5    | 90 | 22   | 8  | 45 | 397   | 90 | 131 | 417.3 | 102 | 2                 | 1902          | 174375   | HNC-125 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

### Flange mounting FNC

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



#### Dimensions and ordering data

| For Ø | E   | FB<br>Ø<br>H13 | MF | R  | TF  | UF  | W  | ZF    | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type    |
|-------|-----|----------------|----|----|-----|-----|----|-------|-------------------|---------------|----------|---------|
| [mm]  |     |                |    |    |     |     |    |       |                   |               |          |         |
| 32    | 45  | 7              | 10 | 32 | 64  | 80  | 16 | 209.6 | 1                 | 221           | 174376   | FNC-32  |
| 40    | 54  | 9              | 10 | 36 | 72  | 90  | 20 | 239.4 | 1                 | 291           | 174377   | FNC-40  |
| 50    | 65  | 9              | 12 | 45 | 90  | 110 | 25 | 253.1 | 1                 | 536           | 174378   | FNC-50  |
| 63    | 75  | 9              | 12 | 50 | 100 | 120 | 25 | 285.9 | 1                 | 679           | 174379   | FNC-63  |
| 80    | 93  | 12             | 16 | 63 | 126 | 150 | 30 | 317.6 | 1                 | 1495          | 174380   | FNC-80  |
| 100   | 110 | 14             | 16 | 75 | 150 | 175 | 35 | 347.3 | 1                 | 2041          | 174381   | FNC-100 |
| 125   | 132 | 16             | 20 | 90 | 180 | 210 | 45 | 392.3 | 1                 | 3775          | 174382   | FNC-125 |

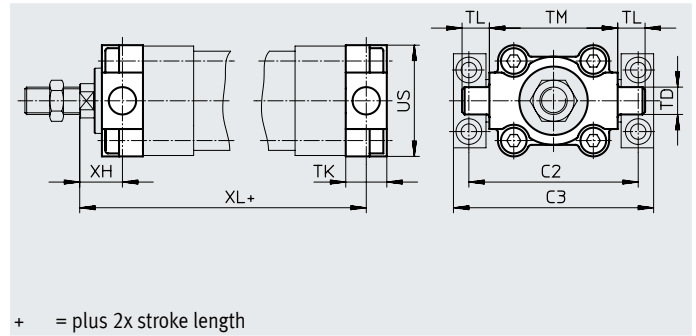
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

## Accessories

### Trunnion flange ZNCF

Material:  
Stainless steel casting  
Free of copper and PTFE  
RoHS-compliant



| Dimensions and ordering data |     |     |               |    |    |     |     |    |       |                   |        |          |          |
|------------------------------|-----|-----|---------------|----|----|-----|-----|----|-------|-------------------|--------|----------|----------|
| For Ø                        | C2  | C3  | TD<br>Ø<br>e9 | TK | TL | TM  | US  | XH | XL    | CRC <sup>1)</sup> | Weight | Part no. | Type     |
| [mm]                         |     |     |               |    |    |     |     |    |       |                   | [g]    |          |          |
| 32                           | 71  | 86  | 12            | 16 | 12 | 50  | 45  | 18 | 207.6 | 2                 | 150    | 174411   | ZNCF-32  |
| 40                           | 87  | 105 | 16            | 20 | 16 | 63  | 54  | 20 | 239.4 | 2                 | 285    | 174412   | ZNCF-40  |
| 50                           | 99  | 117 | 16            | 24 | 16 | 75  | 64  | 25 | 253.1 | 2                 | 473    | 174413   | ZNCF-50  |
| 63                           | 116 | 136 | 20            | 24 | 20 | 90  | 75  | 25 | 285.9 | 2                 | 687    | 174414   | ZNCF-63  |
| 80                           | 136 | 156 | 20            | 28 | 20 | 110 | 93  | 32 | 315.6 | 2                 | 1296   | 174415   | ZNCF-80  |
| 100                          | 164 | 189 | 25            | 38 | 25 | 132 | 110 | 32 | 350.3 | 2                 | 2254   | 174416   | ZNCF-100 |
| 125                          | 192 | 217 | 25            | 50 | 25 | 160 | 131 | 40 | 397.3 | 2                 | 3484   | 174417   | ZNCF-125 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## Accessories

### Trunnion flange kit DAMT

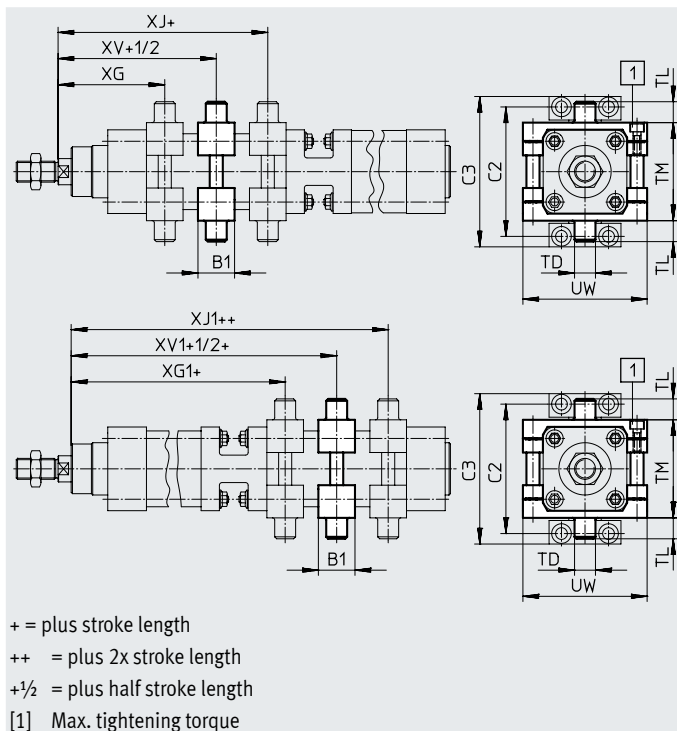
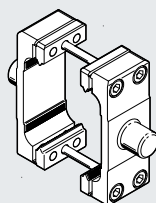
The kit can be attached at any position along the profile barrel of the cylinder.

Material:

Galvanised steel

Free of copper and PTFE

RoHS-compliant



#### Dimensions and ordering data

| For ø | B1 | C2  | C3  | TD<br>ø<br>e9 | TL | TM  | UW  | XG    | XG1   |
|-------|----|-----|-----|---------------|----|-----|-----|-------|-------|
| [mm]  |    |     |     |               |    |     |     |       |       |
| 32    | 30 | 71  | 86  | 12            | 12 | 50  | 65  | 66.3  | 145.4 |
| 40    | 32 | 87  | 105 | 16            | 16 | 63  | 75  | 75.6  | 169.5 |
| 50    | 34 | 99  | 117 | 16            | 16 | 75  | 95  | 84.3  | 181.4 |
| 63    | 41 | 116 | 136 | 20            | 20 | 90  | 105 | 94.3  | 208.8 |
| 80    | 44 | 136 | 156 | 20            | 20 | 110 | 130 | 104.1 | 229.9 |
| 100   | 48 | 164 | 189 | 25            | 25 | 132 | 145 | 112.9 | 252.2 |
| 125   | 50 | 192 | 217 | 25            | 25 | 160 | 175 | 135   | 278.8 |

| For ø | XJ    | XJ1   | XV    | XV1   | Max. tightening torque | CRC <sup>1)</sup> | Weight | Part no. | Type          |
|-------|-------|-------|-------|-------|------------------------|-------------------|--------|----------|---------------|
| [mm]  |       |       |       |       | [Nm]                   |                   | [g]    |          |               |
| 32    | 80.4  | 159.5 | 73.4  | 152.5 | 4+1                    | 1                 | 213    | 2213233  | DAMT-V1-32-A  |
| 40    | 89.9  | 183.8 | 82.8  | 176.7 | 8+1                    | 1                 | 388    | 2214899  | DAMT-V1-40-A  |
| 50    | 97.4  | 194.5 | 90.9  | 188   | 8+2                    | 1                 | 608    | 2214909  | DAMT-V1-50-A  |
| 63    | 103.4 | 217.8 | 98.9  | 213.3 | 18+2                   | 1                 | 911    | 2214971  | DAMT-V1-63-A  |
| 80    | 117.9 | 243.7 | 111   | 236.8 | 28+2                   | 1                 | 1494   | 163529   | DAMT-V1-80-A  |
| 100   | 129.2 | 268.5 | 121.1 | 260.4 | 28+2                   | 1                 | 2095   | 163530   | DAMT-V1-100-A |
| 125   | 158.8 | 302.6 | 146.9 | 290.7 | 40+2                   | 1                 | 3013   | 163531   | DAMT-V7-125-A |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

## Accessories

### Trunnion support LNZZ

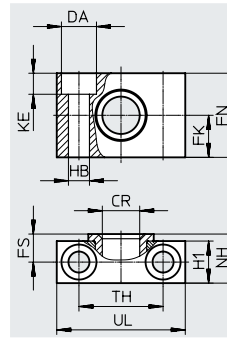
Material:

Trunnion support: Anodised aluminium

Plain bearing: Plastic

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data |  |  |  |  |  |  |  |  |  |  |  |  |  | For $\varnothing$ | CR $\varnothing$ | DA $\varnothing$ | FK $\varnothing$ | FN | FS   | H1   | HB $\varnothing$ | KE  | NH   | TH        | UL | CRC <sup>1)</sup> | Weight | Part no. | Type         |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|------------------|------------------|------------------|----|------|------|------------------|-----|------|-----------|----|-------------------|--------|----------|--------------|
|                              |  |  |  |  |  |  |  |  |  |  |  |  |  | [mm]              | D11              | H13              | $\pm 0.1$        |    |      |      | H13              |     |      | $\pm 0.2$ |    |                   | [g]    |          |              |
|                              |  |  |  |  |  |  |  |  |  |  |  |  |  | 32                | 12               | 11               | 15               | 30 | 10.5 | 15   | 6.6              | 6.8 | 18   | 32        | 46 | 2                 | 83     | 32959    | LNZZ-32      |
|                              |  |  |  |  |  |  |  |  |  |  |  |  |  | 40, 50            | 16               | 15               | 18               | 36 | 12   | 18   | 9                | 9   | 21   | 36        | 55 | 2                 | 129    | 32960    | LNZZ-40/50   |
|                              |  |  |  |  |  |  |  |  |  |  |  |  |  | 63, 80            | 20               | 18               | 20               | 40 | 13   | 20   | 11               | 11  | 23   | 42        | 65 | 2                 | 178    | 32961    | LNZZ-63/80   |
|                              |  |  |  |  |  |  |  |  |  |  |  |  |  | 100, 125          | 25               | 20               | 25               | 50 | 16   | 24.5 | 14               | 13  | 28.5 | 50        | 75 | 2                 | 306    | 32962    | LNZZ-100/125 |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

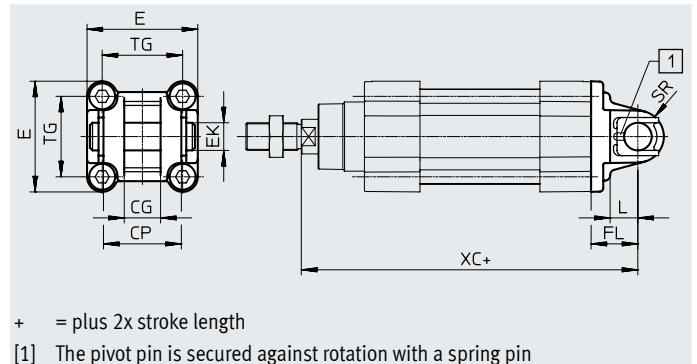
### Swivel flange SNC

Material:

Die-cast aluminium

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data |     |     |              |         |      |    |    |      |       |                   |        |          |         |
|------------------------------|-----|-----|--------------|---------|------|----|----|------|-------|-------------------|--------|----------|---------|
| For Ø                        | CG  | CP  | E            | EK<br>Ø | FL   | L  | SR | TG   | XC    | CRC <sup>1)</sup> | Weight | Part no. | Type    |
| [mm]                         | H14 | h14 |              | H9      | ±0.2 |    |    |      |       |                   | [g]    |          |         |
| 32                           | 14  | 34  | 45+0.2/-0.5  | 10      | 22   | 13 | 10 | 32.5 | 221.6 | 1                 | 93     | 174383   | SNC-32  |
| 40                           | 16  | 40  | 54-0.5       | 12      | 25   | 16 | 12 | 38   | 254.4 | 1                 | 140    | 174384   | SNC-40  |
| 50                           | 21  | 45  | 64-0.6       | 16      | 27   | 16 | 12 | 46.5 | 268.1 | 1                 | 234    | 174385   | SNC-50  |
| 63                           | 21  | 51  | 75-0.6       | 16      | 32   | 21 | 16 | 56.5 | 305.9 | 1                 | 331    | 174386   | SNC-63  |
| 80                           | 25  | 65  | 93-0.8       | 20      | 36   | 22 | 16 | 72   | 337.6 | 1                 | 618    | 174387   | SNC-80  |
| 100                          | 25  | 75  | 110+0.3/-0.8 | 20      | 41   | 27 | 20 | 89   | 372.3 | 1                 | 865    | 174388   | SNC-100 |
| 125                          | 37  | 97  | 131-0.8      | 30      | 50   | 30 | 25 | 110  | 422.3 | 1                 | 1728   | 174389   | SNC-125 |

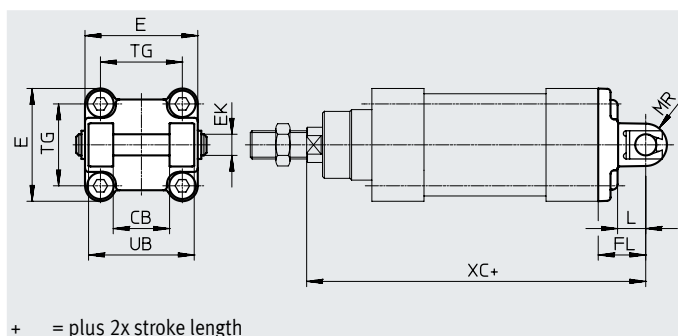
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

## Accessories

### Swivel flange SNCB

Material:  
Die-cast aluminium  
Free of copper and PTFE  
RoHS-compliant



+ = plus 2x stroke length

#### Dimensions and ordering data

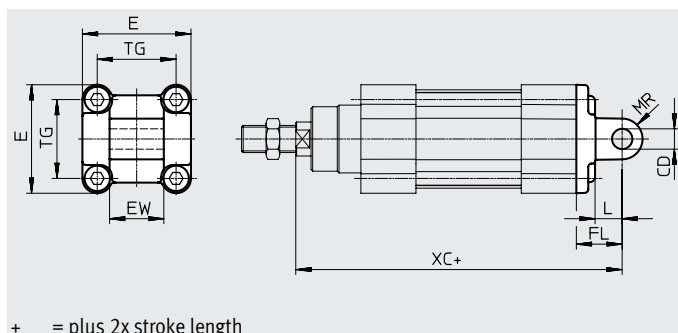
| For $\varnothing$ | CB  | E                  | EK<br>$\varnothing$<br>e8 | FL<br>$\pm 0.2$ | L  | MR<br>-0.5 | TG   | UB<br>h14 | XC    | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type     |
|-------------------|-----|--------------------|---------------------------|-----------------|----|------------|------|-----------|-------|-------------------|---------------|----------|----------|
| [mm]              | H14 |                    |                           |                 |    |            |      |           |       |                   |               |          |          |
| 32                | 26  | 45 $\pm 0.2/-0.5$  | 10                        | 22              | 13 | 8.5        | 32.5 | 45        | 221.6 | 1                 | 103           | 174390   | SNCB-32  |
| 40                | 28  | 54 $-0.5$          | 12                        | 25              | 16 | 12         | 38   | 52        | 254.4 | 1                 | 155           | 174391   | SNCB-40  |
| 50                | 32  | 64 $-0.6$          | 12                        | 27              | 16 | 12         | 46.5 | 60        | 268.1 | 1                 | 232           | 174392   | SNCB-50  |
| 63                | 40  | 75 $-0.6$          | 16                        | 32              | 21 | 16         | 56.5 | 70        | 305.9 | 1                 | 375           | 174393   | SNCB-63  |
| 80                | 50  | 93 $-0.8$          | 16                        | 36              | 22 | 16         | 72   | 90        | 337.6 | 1                 | 636           | 174394   | SNCB-80  |
| 100               | 60  | 110 $\pm 0.3/-0.8$ | 20                        | 41              | 27 | 20         | 89   | 110       | 372.3 | 1                 | 1035          | 174395   | SNCB-100 |
| 125               | 70  | 131 $-0.8$         | 25                        | 50              | 30 | 25         | 110  | 130       | 422.3 | 1                 | 1860          | 174396   | SNCB-125 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

### Swivel flange SNCL

Material:  
Die-cast aluminium  
Free of copper and PTFE  
RoHS-compliant



+ = plus 2x stroke length

#### Dimensions and ordering data

| For $\varnothing$ | CD<br>$\varnothing$<br>H10 | E                  | EW<br>-0.2/-0.6 | FL<br>$\pm 0.2$ | L  | MR | TG   | XC    | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type     |
|-------------------|----------------------------|--------------------|-----------------|-----------------|----|----|------|-------|-------------------|---------------|----------|----------|
| [mm]              |                            |                    |                 |                 |    |    |      |       |                   |               |          |          |
| 32                | 10                         | 45 $\pm 0.2/-0.5$  | 26              | 22              | 13 | 10 | 32.5 | 221.6 | 1                 | 71            | 174404   | SNCL-32  |
| 40                | 12                         | 54 $-0.5$          | 28              | 25              | 16 | 12 | 38   | 254.4 | 1                 | 95            | 174405   | SNCL-40  |
| 50                | 12                         | 64 $-0.6$          | 32              | 27              | 16 | 12 | 46.5 | 268.1 | 1                 | 158           | 174406   | SNCL-50  |
| 63                | 16                         | 75 $-0.6$          | 40              | 32              | 21 | 16 | 56.5 | 305.9 | 1                 | 225           | 174407   | SNCL-63  |
| 80                | 16                         | 93 $-0.8$          | 50              | 36              | 22 | 16 | 72   | 337.6 | 1                 | 436           | 174408   | SNCL-80  |
| 100               | 20                         | 110 $\pm 0.3/-0.8$ | 60              | 41              | 27 | 20 | 89   | 372.3 | 1                 | 606           | 174409   | SNCL-100 |
| 125               | 25                         | 131 $-0.8$         | 70              | 50              | 30 | 25 | 110  | 422.3 | 1                 | 1135          | 174410   | SNCL-125 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

## Accessories

### Swivel flange SNCS

Material:

SNCS 32 ... 50:

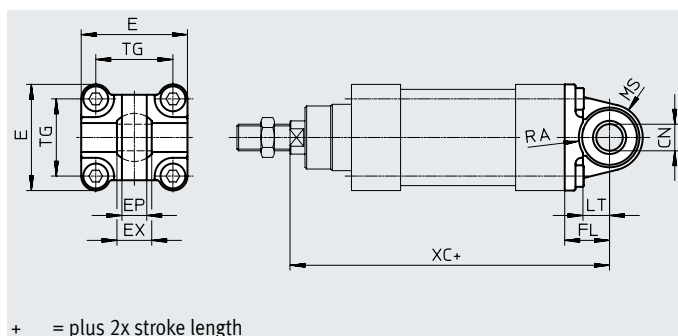
Die-cast aluminium

SNCS 63 ... 125:

Wrought aluminium alloy

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data |                     |                  |           |    |           |    |              |
|------------------------------|---------------------|------------------|-----------|----|-----------|----|--------------|
| For $\varnothing$            | CN<br>$\varnothing$ | E                | EP        | EX | FL        | LT | MS           |
| [mm]                         |                     |                  | $\pm 0.2$ |    | $\pm 0.2$ |    |              |
| 32                           | $10^{+0.013}$       | $45^{+0.2/-0.5}$ | 10.5      | 14 | 22        | 13 | $15^{+0.5}$  |
| 40                           | $12^{+0.015}$       | $54-0.5$         | 12        | 16 | 25        | 16 | $17^{+0.5}$  |
| 50                           | $16^{+0.015}$       | $64-0.6$         | 15        | 21 | 27        | 16 | $20^{+0.5}$  |
| 63                           | $16^{+0.015}$       | $74.5 \pm 0.5$   | 15        | 21 | 32        | 21 | $23_{-0.5}$  |
| 80                           | $20^{+0.018}$       | $92.2 \pm 0.8$   | 18        | 25 | 36        | 22 | $28_{-0.5}$  |
| 100                          | $20^{+0.018}$       | $109^{+1/-0.7}$  | 18        | 25 | 41        | 27 | $30 \pm 0.5$ |
| 125                          | $30^{+0.018}$       | $132^{+1/-0.7}$  | 25        | 37 | 50        | 30 | $39 \pm 0.5$ |

| For $\varnothing$ | RA   | TG   | XC    | CRC <sup>1)</sup> | Weight | Part no. | Type     |
|-------------------|------|------|-------|-------------------|--------|----------|----------|
| [mm]              | +1   |      |       |                   | [g]    |          |          |
| 32                | 14.5 | 32.5 | 221.6 | 1                 | 86     | 174397   | SNCS-32  |
| 40                | 17.5 | 38   | 254.4 | 1                 | 122    | 174398   | SNCS-40  |
| 50                | 18.5 | 46.5 | 268.1 | 1                 | 216    | 174399   | SNCS-50  |
| 63                | 23   | 56.5 | 305.9 | 2                 | 281    | 174400   | SNCS-63  |
| 80                | 25   | 72   | 337.6 | 2                 | 557    | 174401   | SNCS-80  |
| 100               | 95   | 89   | 372.3 | 2                 | 690    | 174402   | SNCS-100 |
| 125               | 100  | 110  | 422.3 | 2                 | 1375   | 174403   | SNCS-125 |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

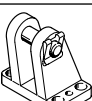
Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Corrosion resistance class CRC 2 to Festo standard FN 940070

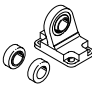
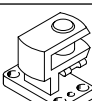
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## Accessories

### Ordering data – Mounting components

| Designation                                                                      | For ø | Part no. | Type     |
|----------------------------------------------------------------------------------|-------|----------|----------|
| <b>Clevis foot LNG</b>                                                           |       |          |          |
|  | 32    | 33890    | LNG-32   |
|                                                                                  | 40    | 33891    | LNG-40   |
|                                                                                  | 50    | 33892    | LNG-50   |
|                                                                                  | 63    | 33893    | LNG-63   |
|                                                                                  | 80    | 33894    | LNG-80   |
|                                                                                  | 100   | 33895    | LNG-100  |
|                                                                                  | 125   | 33896    | LNG-125  |
| <b>Clevis foot LSNG</b>                                                          |       |          |          |
|  | 32    | 31740    | LSNG-32  |
|                                                                                  | 40    | 31741    | LSNG-40  |
|                                                                                  | 50    | 31742    | LSNG-50  |
|                                                                                  | 63    | 31743    | LSNG-63  |
|                                                                                  | 80    | 31744    | LSNG-80  |
|                                                                                  | 100   | 31745    | LSNG-100 |
|                                                                                  | 125   | 31746    | LSNG-125 |
| <b>Clevis foot LBG</b>                                                           |       |          |          |
|  | 32    | 31761    | LBG-32   |
|                                                                                  | 40    | 31762    | LBG-40   |
|                                                                                  | 50    | 31763    | LBG-50   |
|                                                                                  | 63    | 31764    | LBG-63   |
|                                                                                  | 80    | 31765    | LBG-80   |
|                                                                                  | 100   | 31766    | LBG-100  |
|                                                                                  | 125   | 31767    | LBG-125  |

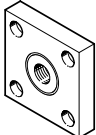
Data sheets → Internet: clevis foot

| Designation                                                                       | For ø | Part no. | Type      |
|-----------------------------------------------------------------------------------|-------|----------|-----------|
| <b>Clevis foot LSN</b>                                                            |       |          |           |
|  | 32    | 5561     | LSN-32    |
|                                                                                   | 40    | 5562     | LSN-40    |
|                                                                                   | 50    | 5563     | LSN-50    |
|                                                                                   | 63    | 5564     | LSN-63    |
|                                                                                   | 80    | 5565     | LSN-80    |
|                                                                                   | 100   | 5566     | LSN-100   |
|                                                                                   | 125   | 6987     | LSN-125   |
| <b>Clevis foot LSNSG</b>                                                          |       |          |           |
|  | 32    | 31747    | LSNSG-32  |
|                                                                                   | 40    | 31748    | LSNSG-40  |
|                                                                                   | 50    | 31749    | LSNSG-50  |
|                                                                                   | 63    | 31750    | LSNSG-63  |
|                                                                                   | 80    | 31751    | LSNSG-80  |
|                                                                                   | 100   | 31752    | LSNSG-100 |
|                                                                                   | 125   | 31753    | LSNSG-125 |
| <b>Right angle clevis foot LQG</b>                                                |       |          |           |
|  | 32    | 31768    | LQG-32    |
|                                                                                   | 40    | 31769    | LQG-40    |
|                                                                                   | 50    | 31770    | LQG-50    |
|                                                                                   | 63    | 31771    | LQG-63    |
|                                                                                   | 80    | 31772    | LQG-80    |
|                                                                                   | 100   | 31773    | LQG-100   |
|                                                                                   | 125   | 31774    | LQG-125   |



## Accessories

## Ordering data – Piston rod attachments

| Designation                                                                       | For Ø | Part no. | Type         |
|-----------------------------------------------------------------------------------|-------|----------|--------------|
| <b>Rod eye SGS</b>                                                                |       |          |              |
|  | 32    | 9261     | SGS-M10x1.25 |
|                                                                                   | 40    | 9262     | SGS-M12x1.25 |
|                                                                                   | 50    | 9263     | SGS-M16x1.5  |
|                                                                                   | 63    |          |              |
|                                                                                   | 80    | 9264     | SGS-M20x1.5  |
|                                                                                   | 100   |          |              |
|                                                                                   | 125   | 10774    | SGS-M27x2    |
| <b>Rod clevis SG</b>                                                              |       |          |              |
|  | 32    | 6144     | SG-M10x1.25  |
|                                                                                   | 40    | 6145     | SG-M12x1.25  |
|                                                                                   | 50    | 6146     | SG-M16x1.5   |
|                                                                                   | 63    |          |              |
|  | 80    | 6147     | SG-M20x1.5   |
|                                                                                   | 100   |          |              |
|                                                                                   | 125   | 14987    | SG-M27x2-B   |
| <b>Coupling piece KSG</b>                                                         |       |          |              |
|  | 32    | 32963    | KSG-M10x1.25 |
|                                                                                   | 40    | 32964    | KSG-M12x1.25 |
|                                                                                   | 50    | 32965    | KSG-M16x1.5  |
|                                                                                   | 63    |          |              |
|                                                                                   | 80    | 32966    | KSG-M20x1.5  |
|                                                                                   | 100   |          |              |
|                                                                                   | 125   | 32967    | KSG-M27x2    |

Data sheets → Internet: piston rod attachment

| Designation                                                                                                                                                                                     | For Ø | Part no. | Type                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|--------------------------|
| <b>Rod clevis SGA</b>                                                                                                                                                                           |       |          |                          |
|                                                                                                                | 32    | 32954    | SGA-M10x1.25             |
|                                                                                                                                                                                                 | 40    | 10767    | SGA-M12x1.25             |
|                                                                                                                                                                                                 | 50    | 10768    | SGA-M16x1.5              |
|                                                                                                                                                                                                 | 63    |          |                          |
|                                                                                                                                                                                                 | 80    | 10769    | SGA-M20x1.5              |
|                                                                                                                                                                                                 | 100   |          |                          |
|                                                                                                                                                                                                 | 125   | 10770    | SGA-M27x2                |
| <b>Self-aligning rod coupler FK</b>                                                                                                                                                             |       |          |                          |
|                                                                                                                | 32    | 6140     | FK-M10x1.25              |
|                                                                                                                                                                                                 | 40    | 6141     | FK-M12x1.25              |
|                                                                                                                                                                                                 | 50    | 6142     | FK-M16x1.5               |
|                                                                                                                                                                                                 | 63    |          |                          |
|                                                                                                                                                                                                 | 80    | 6143     | FK-M20x1.5 <sup>1)</sup> |
|                                                                                                                                                                                                 | 100   |          |                          |
|                                                                                                                                                                                                 | 125   | 10485    | FK-M27x2                 |
|  <b>Note</b><br>1) The maximum force of 10 000 N must not be exceeded when using these piston rod attachments. |       |          |                          |

## Ordering data – One-way flow control valves

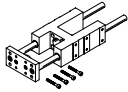
|                                                                                     | Connection | For tubing O.D. | Material     | Part no. | Type             |
|-------------------------------------------------------------------------------------|------------|-----------------|--------------|----------|------------------|
|                                                                                     | Thread     |                 |              |          |                  |
|  | G1/8       | 3               | Metal design | 193142   | GRLA-1/8-QS-3-D  |
|                                                                                     |            | 4               |              | 193143   | GRLA-1/8-QS-4-D  |
|                                                                                     |            | 6               |              | 193144   | GRLA-1/8-QS-6-D  |
|                                                                                     |            | 8               |              | 193145   | GRLA-1/8-QS-8-D  |
|                                                                                     | G1/4       | 6               |              | 193146   | GRLA-1/4-QS-6-D  |
|                                                                                     |            | 8               |              | 193147   | GRLA-1/4-QS-8-D  |
|                                                                                     |            | 10              |              | 193148   | GRLA-1/4-QS-10-D |
|                                                                                     | G3/8       | 6               |              | 193149   | GRLA-3/8-QS-6-D  |
|                                                                                     |            | 8               |              | 193150   | GRLA-3/8-QS-8-D  |
|                                                                                     |            | 10              |              | 193151   | GRLA-3/8-QS-10-D |
|                                                                                     | G1/2       | 12              |              | 193152   | GRLA-1/2-QS-12-D |

Data sheets → Internet: grla

## Accessories

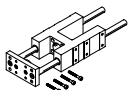
### Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only)

Data sheets → Internet: festo

|                                                                                  | Stroke<br>[mm]     | Part no. | Type           | Stroke<br>[mm]      | Part no. | Type            |
|----------------------------------------------------------------------------------|--------------------|----------|----------------|---------------------|----------|-----------------|
|  | <b>For Ø 32 mm</b> |          |                | <b>For Ø 40 mm</b>  |          |                 |
|                                                                                  | 10 ... 50          | 34493    | FENG-32-50-KF  | 10 ... 50           | 34499    | FENG-40-50-KF   |
|                                                                                  | 10 ... 100         | 34494    | FENG-32-100-KF | 10 ... 100          | 34500    | FENG-40-100-KF  |
|                                                                                  | 10 ... 160         | 34495    | FENG-32-160-KF | 10 ... 160          | 34501    | FENG-40-160-KF  |
|                                                                                  | 10 ... 200         | 34496    | FENG-32-200-KF | 10 ... 200          | 34502    | FENG-40-200-KF  |
|                                                                                  | 10 ... 250         | 150289   | FENG-32-250-KF | 10 ... 250          | 34503    | FENG-40-250-KF  |
|                                                                                  | 10 ... 320         | 34497    | FENG-32-320-KF | 10 ... 320          | 34504    | FENG-40-320-KF  |
|                                                                                  | 10 ... 400         | 150290   | FENG-32-400-KF | 10 ... 400          | 150291   | FENG-40-400-KF  |
|                                                                                  | 10 ... 500         | 34498    | FENG-32-500-KF | 10 ... 500          | 34505    | FENG-40-500-KF  |
|                                                                                  | <b>For Ø 50 mm</b> |          |                | <b>For Ø 63 mm</b>  |          |                 |
|                                                                                  | 10 ... 50          | 34506    | FENG-50-50-KF  | 10 ... 50           | 34513    | FENG-63-50-KF   |
|                                                                                  | 10 ... 100         | 34507    | FENG-50-100-KF | 10 ... 100          | 34514    | FENG-63-100-KF  |
|                                                                                  | 10 ... 160         | 34508    | FENG-50-160-KF | 10 ... 160          | 34515    | FENG-63-160-KF  |
|                                                                                  | 10 ... 200         | 34509    | FENG-50-200-KF | 10 ... 200          | 34516    | FENG-63-200-KF  |
|                                                                                  | 10 ... 250         | 34510    | FENG-50-250-KF | 10 ... 250          | 34517    | FENG-63-250-KF  |
|                                                                                  | 10 ... 320         | 34511    | FENG-50-320-KF | 10 ... 320          | 34518    | FENG-63-320-KF  |
|                                                                                  | 10 ... 400         | 150292   | FENG-50-400-KF | 10 ... 400          | 34519    | FENG-63-400-KF  |
|                                                                                  | 10 ... 500         | 34512    | FENG-50-500-KF | 10 ... 500          | 34520    | FENG-63-500-KF  |
|                                                                                  | <b>For Ø 80 mm</b> |          |                | <b>For Ø 100 mm</b> |          |                 |
|                                                                                  | 10 ... 50          | 34521    | FENG-80-50-KF  | 10 ... 50           | 34529    | FENG-100-50-KF  |
|                                                                                  | 10 ... 100         | 34522    | FENG-80-100-KF | 10 ... 100          | 34530    | FENG-100-100-KF |
|                                                                                  | 10 ... 160         | 34523    | FENG-80-160-KF | 10 ... 160          | 34531    | FENG-100-160-KF |
|                                                                                  | 10 ... 200         | 34524    | FENG-80-200-KF | 10 ... 200          | 34532    | FENG-100-200-KF |
|                                                                                  | 10 ... 250         | 34525    | FENG-80-250-KF | 10 ... 250          | 34533    | FENG-100-250-KF |
|                                                                                  | 10 ... 320         | 34526    | FENG-80-320-KF | 10 ... 320          | 34534    | FENG-100-320-KF |
|                                                                                  | 10 ... 400         | 34527    | FENG-80-400-KF | 10 ... 400          | 34535    | FENG-100-400-KF |
|                                                                                  | 10 ... 500         | 34528    | FENG-80-500-KF | 10 ... 500          | 34536    | FENG-100-500-KF |

### Ordering data – Guide units for variable strokes

Data sheets → Internet: festo

|                                                                                    | For Ø<br>[mm] | Stroke<br>[mm] | With recirculating ball bearing guide |                 | With plain-bearing guide |                 |
|------------------------------------------------------------------------------------|---------------|----------------|---------------------------------------|-----------------|--------------------------|-----------------|
|                                                                                    |               |                | Part no.                              | Type            | Part no.                 | Type            |
|  | 32            | 10 ... 500     | 34487                                 | FENG-32-...-KF  | 34481                    | FENG-32-...-GF  |
|                                                                                    | 40            | 10 ... 500     | 34488                                 | FENG-40-...-KF  | 34482                    | FENG-40-...-GF  |
|                                                                                    | 50            | 10 ... 500     | 34489                                 | FENG-50-...-KF  | 34483                    | FENG-50-...-GF  |
|                                                                                    | 63            | 10 ... 500     | 34490                                 | FENG-63-...-KF  | 34484                    | FENG-63-...-GF  |
|                                                                                    | 80            | 10 ... 500     | 34491                                 | FENG-80-...-KF  | 34485                    | FENG-80-...-GF  |
|                                                                                    | 100           | 10 ... 500     | 34492                                 | FENG-100-...-KF | 34486                    | FENG-100-...-GF |

### Ordering data – Mounting kits for proximity switch SMT-8

Data sheets → Internet: smb

|                                                                                    | For Ø [mm] | Part no. | Type              |
|------------------------------------------------------------------------------------|------------|----------|-------------------|
|  | 32         | 175705   | SMB-8-FENG-32/40  |
|                                                                                    | 40         |          |                   |
|                                                                                    | 50         | 175706   | SMB-8-FENG-50/63  |
|                                                                                    | 63         |          |                   |
|                                                                                    | 80         | 175707   | SMB-8-FENG-80/100 |
|                                                                                    | 100        |          |                   |

## Accessories

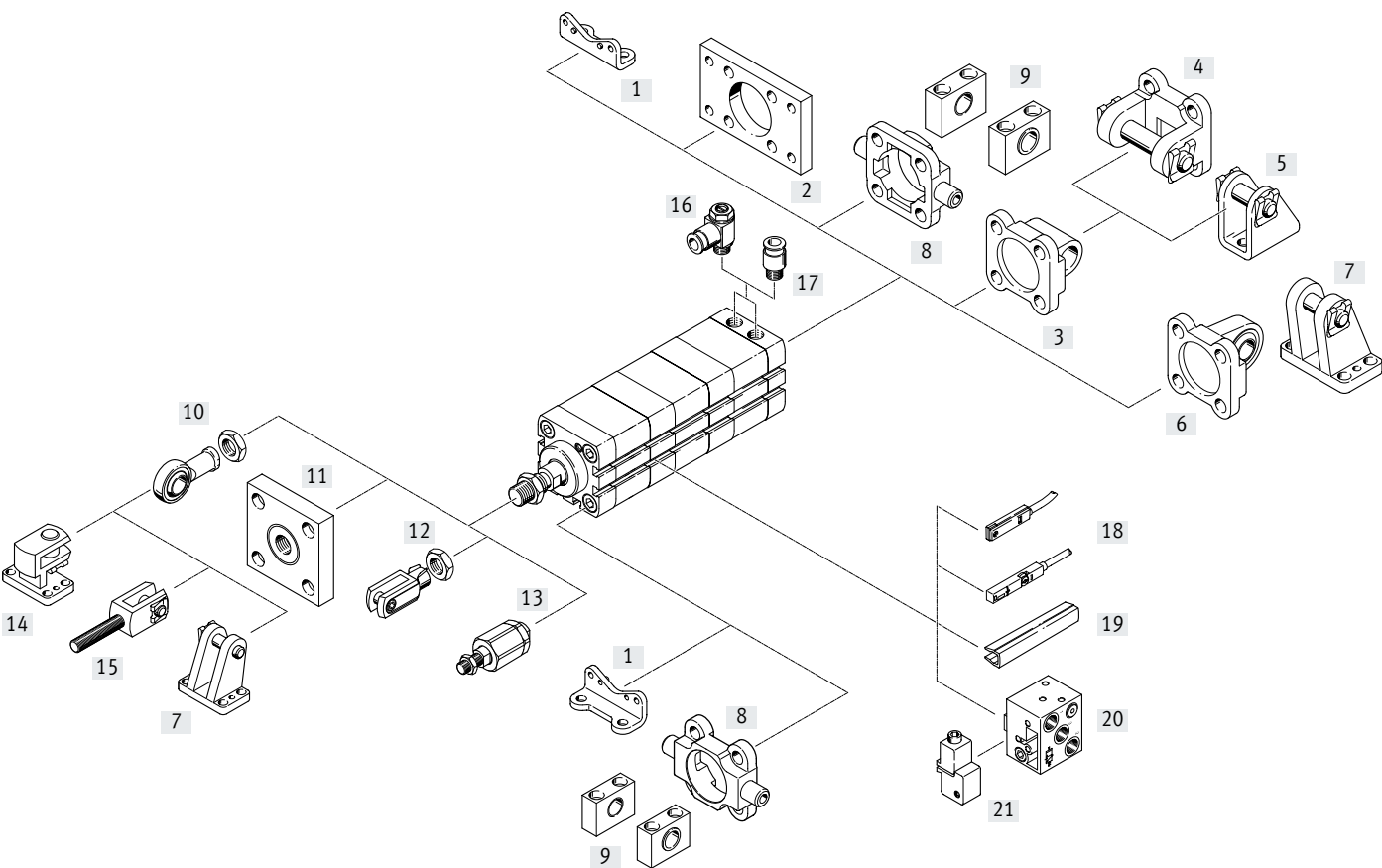
| Ordering data – Proximity switch for T-slot, magneto-resistive                    |                                                                                |                  |                       |                  |          | Data sheets → Internet: smt |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------|-----------------------|------------------|----------|-----------------------------|
|                                                                                   | Type of mounting                                                               | Switching output | Electrical connection | Cable length [m] | Part no. | Type                        |
| N/O contact                                                                       |                                                                                |                  |                       |                  |          |                             |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP              | Cable, 3-wire         | 2.5              | 574335   | SMT-8M-A-PS-24V-E-2.5-OE    |
|                                                                                   |                                                                                |                  | Plug M8x1, 3-pin      | 0.3              | 574334   | SMT-8M-A-PS-24V-E-0.3-M8D   |
|                                                                                   |                                                                                |                  | Plug M12x1, 3-pin     | 0.3              | 574337   | SMT-8M-A-PS-24V-E-0.3-M12   |
|                                                                                   |                                                                                | NPN              | Cable, 3-wire         | 2.5              | 574338   | SMT-8M-A-NS-24V-E-2.5-OE    |
|                                                                                   |                                                                                |                  | Plug M8x1, 3-pin      | 0.3              | 574339   | SMT-8M-A-NS-24V-E-0.3-M8D   |
| N/C contact                                                                       |                                                                                |                  |                       |                  |          |                             |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP              | Cable, 3-wire         | 7.5              | 574340   | SMT-8M-A-PO-24V-E-7.5-OE    |

| Ordering data – Proximity switch for T-slot, magnetic reed                        |                                                                  |                  |                       |                  |          | Data sheets → Internet: sme |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------|-----------------------|------------------|----------|-----------------------------|
|                                                                                   | Type of mounting                                                 | Switching output | Electrical connection | Cable length [m] | Part no. | Type                        |
| N/O contact                                                                       |                                                                  |                  |                       |                  |          |                             |
|  | Inserted in the slot from above, flush with the cylinder profile | Contacting       | Cable, 3-wire         | 2.5              | 543862   | SME-8M-DS-24V-K-2.5-OE      |
|                                                                                   |                                                                  |                  |                       | 5.0              | 543863   | SME-8M-DS-24V-K-5.0-OE      |
|                                                                                   |                                                                  |                  | Cable, 2-wire         | 2.5              | 543872   | SME-8M-ZS-24V-K-2.5-OE      |
|                                                                                   |                                                                  |                  | Plug M8x1, 3-pin      | 0.3              | 543861   | SME-8M-DS-24V-K-0.3-M8D     |
|                                                                                   |                                                                  |                  |                       |                  |          |                             |

| Ordering data – Connecting cables                                                   |                               |                              |                  |          |                      | Data sheets → Internet: nebu |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------|------------------|----------|----------------------|------------------------------|
|                                                                                     | Electrical connection, left   | Electrical connection, right | Cable length [m] | Part no. | Type                 |                              |
|  | Straight socket, M8x1, 3-pin  | Cable, open end, 3-wire      | 2.5              | 541333   | NEBU-M8G3-K-2.5-LE3  |                              |
|                                                                                     |                               |                              | 5                | 541334   | NEBU-M8G3-K-5-LE3    |                              |
|                                                                                     | Straight socket, M12x1, 5-pin | Cable, open end, 3-wire      | 2.5              | 541363   | NEBU-M12G5-K-2.5-LE3 |                              |
|                                                                                     |                               |                              | 5                | 541364   | NEBU-M12G5-K-5-LE3   |                              |
|  | Angled socket, M8x1, 3-pin    | Cable, open end, 3-wire      | 2.5              | 541338   | NEBU-M8W3-K-2.5-LE3  |                              |
|                                                                                     |                               |                              | 5                | 541341   | NEBU-M8W3-K-5-LE3    |                              |
|                                                                                     | Angled socket, M12x1, 5-pin   | Cable, open end, 3-wire      | 2.5              | 541367   | NEBU-M12W5-K-2.5-LE3 |                              |
|                                                                                     |                               |                              | 5                | 541370   | NEBU-M12W5-K-5-LE3   |                              |

| Ordering data – Slot cover for T-slot                                               |            |          |          |         |
|-------------------------------------------------------------------------------------|------------|----------|----------|---------|
|                                                                                     | Mounting   | Length   | Part no. | Type    |
|  | Insertable | 2x 0.5 m | 151680   | ABP-5-S |

Peripherals overview



## Peripherals overview

| Mounting components and accessories |                                          | ø 25 | ø 40, 63, 100 | → Page/Internet |
|-------------------------------------|------------------------------------------|------|---------------|-----------------|
| [1]                                 | Foot mounting<br>HNA/HNA-...-R3          | ■    | ■             | 30              |
| [2]                                 | Flange mounting<br>FNC                   | ■    | ■             | 31              |
| [3]                                 | Swivel flange<br>SNCL/SNCL-...-R3        | ■    | ■             | 32              |
| [4]                                 | Swivel flange<br>SNCB/SNCB-...-R3        | —    | ■             | 35              |
| [5]                                 | Clevis foot<br>LBN/CRLBN                 | ■    | —             | 34              |
| [6]                                 | Swivel flange<br>SNCS/CRSNCS/SNCS-...-R3 | —    | ■             | 33              |
| [7]                                 | Clevis foot<br>LBG/LBG-...-R3            | —    | ■             | 34              |
| [8]                                 | Trunnion flange<br>ZNCF/CRZNG            | —    | ■             | 36              |
| [9]                                 | Trunnion support<br>LNZG                 | —    | ■             | 36              |
| [10]                                | Rod eye<br>SGS/CRSGS                     | ■    | ■             | 37              |
| [11]                                | Coupling piece<br>KSG                    | ■    | ■             | 37              |
| [12]                                | Rod clevis<br>SG/CRSG                    | ■    | ■             | 37              |
| [13]                                | Self-aligning rod coupler<br>FK/CRFK     | ■    | ■             | 37              |
| [14]                                | Right-angle clevis foot<br>LQG           | —    | ■             | 34              |
| [15]                                | Rod clevis<br>SGA                        | —    | ■             | 37              |
| [16]                                | One-way flow control valve<br>GRLA       | ■    | ■             | 38              |
| [17]                                | Push-in fitting<br>QS                    | ■    | ■             | qs              |
| [18]                                | Proximity switch<br>SME/SMT-8M           | ■    | ■             | 38              |
| [19]                                | Slot cover<br>ABP-5-S                    | ■    | ■             | 39              |
| [20]                                | Proximity switch<br>SMPO-8E              | ■    | ■             | 39              |
| [21]                                | Mounting kit<br>SMB-8E                   | ■    | ■             | 39              |

## Type codes

|      |                                                        |  |
|------|--------------------------------------------------------|--|
| 001  | Series                                                 |  |
| ADNH | High-force cylinder, double-acting, based on ISO 21287 |  |

|     |                 |  |
|-----|-----------------|--|
| 002 | Piston diameter |  |
| 25  | 25              |  |
| 40  | 40              |  |
| 63  | 63              |  |
| 100 | 100             |  |

|     |           |  |
|-----|-----------|--|
| 003 | Stroke    |  |
| ... | 1 ... 150 |  |

|     |               |  |
|-----|---------------|--|
| 004 | Thread type   |  |
| I   | Female thread |  |
| A   | Male thread   |  |

|     |                                               |  |
|-----|-----------------------------------------------|--|
| 005 | Cushioning                                    |  |
| P   | Elastic cushioning rings/plates on both sides |  |

|     |                      |  |
|-----|----------------------|--|
| 006 | Position sensing     |  |
| A   | For proximity sensor |  |

|     |                                       |  |
|-----|---------------------------------------|--|
| 007 | Number of cylinders                   |  |
| 2N  | 2 cylinders for twice the force       |  |
| 3N  | 3 cylinders for three times the force |  |
| 4N  | 4 cylinders for four times the force  |  |

|       |                             |  |
|-------|-----------------------------|--|
| 008   | Piston rod thread extension |  |
|       | None                        |  |
| ...K2 | 1 ... 30 mm                 |  |

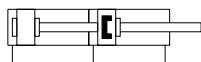
|               |               |  |
|---------------|---------------|--|
| 009           | Custom thread |  |
| "M5"K5        | M5            |  |
| "M8"K5        | M8            |  |
| "M10"K5       | M10           |  |
| "M10x1,25"K5  | M10x1.25      |  |
| "M12"K5       | M12           |  |
| "M12 x1,25"K5 | M12 x1.25     |  |
| "M16"K5       | M16           |  |
| "M16x1,5"K5   | M16x1.5       |  |
| "M20"K5       | M20           |  |

|       |                      |  |
|-------|----------------------|--|
| 010   | Piston rod extension |  |
|       | None                 |  |
| ...K8 | 1 ... 150 mm         |  |

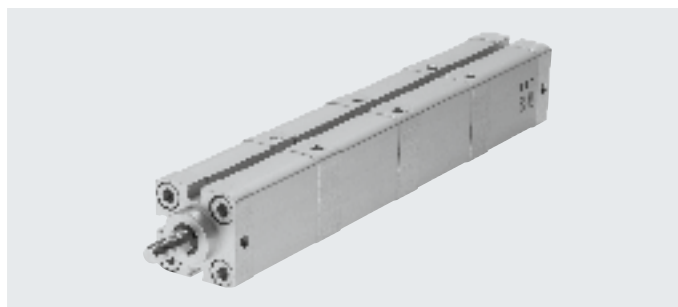
|     |                                  |  |
|-----|----------------------------------|--|
| 011 | Temperature resistance           |  |
|     | Standard                         |  |
| S6  | Heat-resistant seals max. 120 °C |  |

|     |                           |  |
|-----|---------------------------|--|
| 012 | Captive rating plate      |  |
|     | Rating plate, glued       |  |
| TL  | Laser etched rating plate |  |

## Data sheet



- $\varnothing$  - Diameter  
25 ... 100 mm
- $\text{I}$  - Stroke length  
1 ... 150 mm



| General technical data |                    |                                            |          |         |         |
|------------------------|--------------------|--------------------------------------------|----------|---------|---------|
| Piston Ø               |                    | 25                                         | 40       | 63      | 100     |
| Pneumatic connection   |                    | M5                                         | M5       | G1/8    | G1/8    |
| Piston rod thread      | Female             | M6                                         | M10      | M12     | M16     |
|                        | Male               | M8                                         | M12x1.25 | M16x1.5 | M20x1.5 |
| Design                 |                    | Piston                                     |          |         |         |
|                        |                    | Piston rod                                 |          |         |         |
|                        |                    | Cylinder barrel                            |          |         |         |
| Cushioning             |                    | Elastic cushioning rings/pads at both ends |          |         |         |
| Position sensing       |                    | Via proximity switch                       |          |         |         |
| Type of mounting       | With female thread |                                            |          |         |         |
|                        | Via accessories    |                                            |          |         |         |
| Mounting position      |                    | Any                                        |          |         |         |

| Operating and environmental conditions       |             |                                                                                            |    |            |     |
|----------------------------------------------|-------------|--------------------------------------------------------------------------------------------|----|------------|-----|
| Piston Ø                                     |             | 25                                                                                         | 40 | 63         | 100 |
| Operating medium                             |             | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |    |            |     |
| Note on operating/<br>pilot medium           |             | Lubricated operation possible (in which case lubricated operation will always be required) |    |            |     |
| Operating pressure                           |             |                                                                                            |    |            |     |
| in [MPa]                                     | 2 cylinders | 0.08 ... 1                                                                                 |    | 0.06 ... 1 |     |
|                                              | 3 cylinders | 0.11 ... 1                                                                                 |    | 0.09 ... 1 |     |
|                                              | 4 cylinders | 0.14 ... 1                                                                                 |    | 0.12 ... 1 |     |
| in [bar]                                     | 2 cylinders | 0.8 ... 10                                                                                 |    | 0.6 ... 10 |     |
|                                              | 3 cylinders | 1.1 ... 10                                                                                 |    | 0.9 ... 10 |     |
|                                              | 4 cylinders | 1.4 ... 10                                                                                 |    | 1.2 ... 10 |     |
| Ambient temperature <sup>1)</sup>            |             | -20 ... +80                                                                                |    |            |     |
| [°C]                                         | S6          | 0 ... +120                                                                                 |    |            |     |
| Corrosion resistance class CRC <sup>2)</sup> |             | 2                                                                                          |    |            |     |

1) Note operating range of proximity switches

2) Corrosion resistance class CRC 2 to Festo standard FN 940070

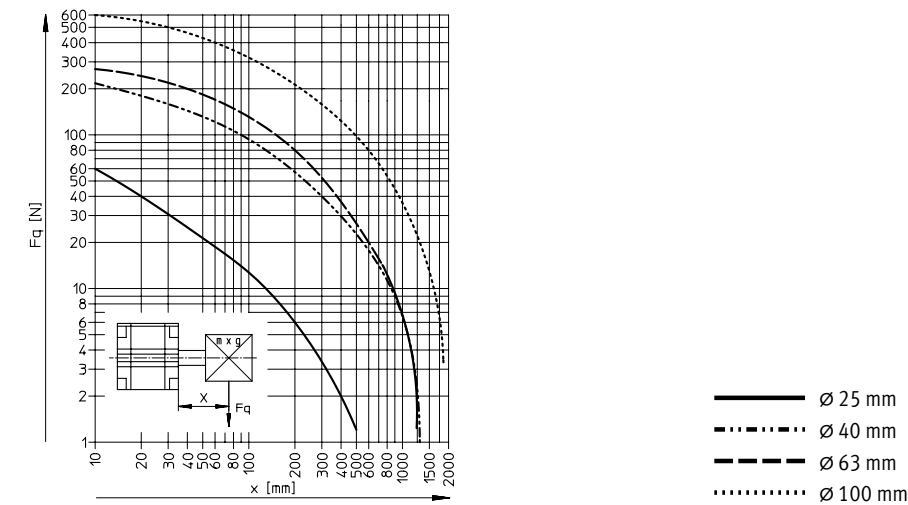
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Data sheet

| Forces [N] and impact energy [J]                     |             |                                           |      |      |       |
|------------------------------------------------------|-------------|-------------------------------------------|------|------|-------|
| Piston ø                                             |             | 25                                        | 40   | 63   | 100   |
| Theoretical force at 6 bar, advancing                | 2 cylinders | 542                                       | 1440 | 3619 | 9235  |
|                                                      | 3 cylinders | 789                                       | 2126 | 5369 | 13758 |
|                                                      | 4 cylinders | 1036                                      | 2812 | 7120 | 18281 |
| Theoretical force at 6 bar, retracting <sup>1)</sup> |             | 247                                       | 633  | 1681 | 4417  |
| Force range                                          |             | ≥ 5 mm before the end position is reached |      |      |       |
| Max. impact energy at the end positions              |             | 0.3                                       | 0.7  | 1.3  | 2.5   |
|                                                      | S6          | 0.15                                      | 0.35 | 0.65 | 1.25  |

1) Only the single force is available during retracting

Max. lateral force Fq as a function of the projection x

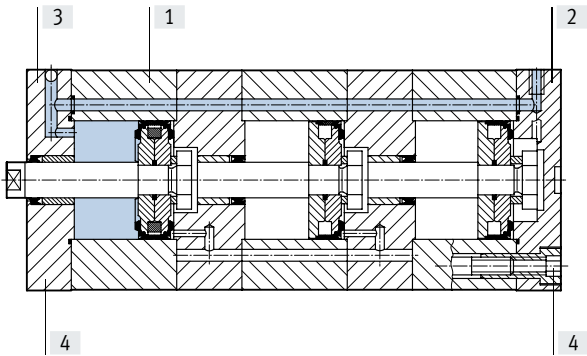




Data sheet

Materials

Sectional view



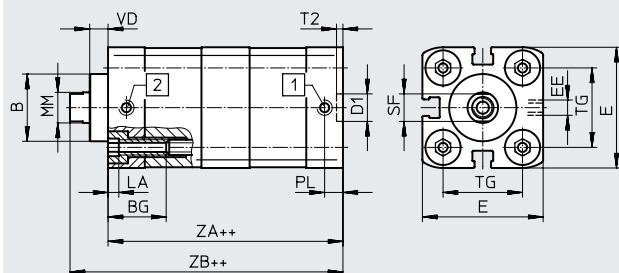
| High-force cylinder | Basic version                | S6                 |
|---------------------|------------------------------|--------------------|
| [1] Cylinder barrel | Anodised aluminium           | Anodised aluminium |
| [2] Cover           | Anodised aluminium           | Anodised aluminium |
| [3] Piston rod      | High-alloy steel             | High-alloy steel   |
| [4] Flange screws   | Galvanised steel             | Galvanised steel   |
| - Seals             | Polyurethane, nitrile rubber | Fluoro rubber      |
| Note on materials   |                              | RoHS-compliant     |

# Data sheet

## Dimensions – Basic version

Download CAD data → [www.festo.com](http://www.festo.com)

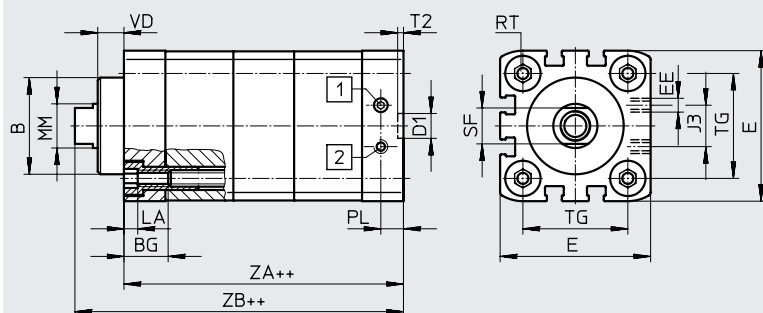
Ø 25/2N – 2 cylinders



- [1] Cylinder advancing
- [2] Cylinder retracting

++ = plus 2x stroke length

Ø 40 ... 100/2N – 2 cylinders



- [1] Cylinder advancing
- [2] Cylinder retracting

++ = plus 2x stroke length

3N – 3 cylinders



+++ = plus 3x stroke length

4N – 4 cylinders



++++ = plus 4x stroke length

| Ø    | B  | BG   | D1 | E     | EE   | J3 | LA | MM | PL   | RT  |
|------|----|------|----|-------|------|----|----|----|------|-----|
| [mm] | Ø  | min. | Ø  |       |      |    |    | Ø  |      |     |
| 25   | 22 | 15   | 9  | 39.5  | M5   | –  | 5  | 10 | 6    | M5  |
| 40   | 35 | 16   | 12 | 54.5  | G1/8 | 15 |    | 16 | 8.2  | M6  |
| 63   | 42 | 17   |    | 75.5  |      | 23 |    | 20 |      | M8  |
| 100  | 55 |      |    | 113.5 |      | 40 |    | 25 | 10.5 | M10 |

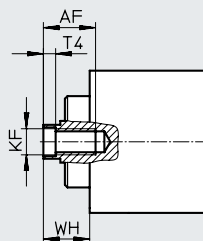
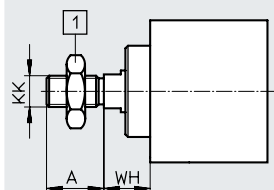
| Ø    | SF | T2   | TG   | VD   | ZA                    |                       |                       | ZB                    |                       |                       |
|------|----|------|------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| [mm] |    | +0.1 | ±0.2 |      | No. of cylinders      |                       |                       | No. of cylinders      |                       |                       |
|      |    |      |      |      | 2                     | 3                     | 4                     | 2                     | 3                     | 4                     |
| 25   | 9  | 2.1  | 26   | 6    | 76.3 <sup>+1.2</sup>  | 110.5 <sup>+1.8</sup> | 144.7 <sup>+2.4</sup> | 88.5 <sup>+1.6</sup>  | 122.7 <sup>+2.2</sup> | 156.9 <sup>+2.8</sup> |
| 40   | 13 |      | 38   | 9.5  | 86.2 <sup>+1.2</sup>  | 125.5 <sup>+1.8</sup> | 164.8 <sup>+2.4</sup> | 104.6 <sup>+1.6</sup> | 143.9 <sup>+2.2</sup> | 183.2 <sup>+2.8</sup> |
| 63   | 17 | 2.6  | 56.5 | 12   | 93.3 <sup>+1.2</sup>  | 135.7 <sup>+1.8</sup> | 178.1 <sup>+2.4</sup> | 114.6 <sup>+1.6</sup> | 157 <sup>+2.2</sup>   | 199.4 <sup>+2.8</sup> |
| 100  | 21 |      | 89   | 15.5 | 120.9 <sup>+1.2</sup> | 172.8 <sup>+1.8</sup> | 224.7 <sup>+2.4</sup> | 147.9 <sup>+1.6</sup> | 199.8 <sup>+2.2</sup> | 251.7 <sup>+2.8</sup> |

# Data sheet

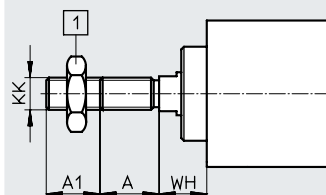
## Dimensions – Variants

Download CAD data → [www.festo.com](http://www.festo.com)

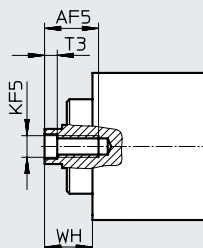
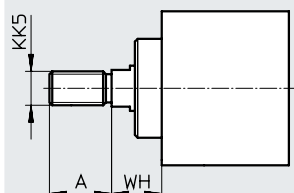
### Basic version


[1] Hex nut DIN 439-B  
for  $\varnothing 40 \dots 100$  only

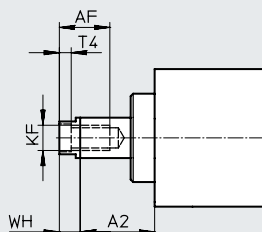
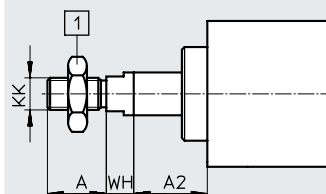
### K2 – Reinforced piston rod with extended male piston rod thread


[1] Hex nut DIN 439-B  
for  $\varnothing 40 \dots 100$  only

### K5 – Reinforced piston rod with special piston rod thread



### K8 – Reinforced piston rod with extended piston rod


[1] Hex nut DIN 439-B  
for  $\varnothing 40 \dots 100$  only

| $\varnothing$ | A    | A1       | A2        | AF   | AF5  | KF  | KF5 | KK       | KK5             | T3  | T4  | WH   |
|---------------|------|----------|-----------|------|------|-----|-----|----------|-----------------|-----|-----|------|
| [mm]          | -0.5 |          |           | min. | min. |     |     |          |                 |     |     | +1.3 |
| 25            | 16   | 1 ... 20 | 1 ... 150 | 14   | 12   | M6  | M5  | M8       | M10x1.25<br>M10 | 2   | 2.6 | 11.8 |
| 40            | 22   |          |           | 20   | 16   | M10 | M8  | M12x1.25 | M10x1.25<br>M12 | 3.3 | 4.7 | 18   |
| 63            | 28   |          |           |      | 20   | M12 | M10 | M16x1.5  | M12x1.25<br>M16 | 4.7 | 6.1 | 21   |
| 100           | 40   | 1 ... 30 |           | 25   | –    | M16 | –   | M20x1.5  | M16x1.5<br>M20  | –   | 7   | 26.5 |

## Ordering data – Modular product system

| Ordering table      |                                                 |               |               |               |            |             |            |
|---------------------|-------------------------------------------------|---------------|---------------|---------------|------------|-------------|------------|
| Size                | 25                                              | 40            | 63            | 100           | Conditions | Code        | Enter code |
| Module no.          | <b>539691</b>                                   | <b>539692</b> | <b>539693</b> | <b>539694</b> |            |             |            |
| Function            | Compact tandem cylinder, based on DIN ISO 21287 |               |               |               |            | <b>ADNH</b> | ADNH       |
| Size [mm]           | 25                                              | 40            | 63            | 100           |            | -...        |            |
| Stroke [mm]         | 1 ... 150                                       |               |               |               |            | -...        |            |
| Thread type         | Male thread                                     |               |               |               |            | -A          |            |
|                     | Female thread                                   |               |               |               |            | -I          |            |
| Cushioning          | Elastic cushioning rings/pads at both ends      |               |               |               |            | -P          | -P         |
| Position sensing    | Via proximity switch                            |               |               |               |            | -A          | -A         |
| Number of cylinders | 2 cylinders for twice the force                 |               |               |               |            | -2N         | - ... N    |
|                     | 3 cylinders for three times the force           |               |               |               |            | -3N         |            |
|                     | 4 cylinders for four times the force            |               |               |               |            | -4N         |            |

## Ordering data – Modular product system

| Ordering table                   |                                 |           |           |           |            |          |  |            |
|----------------------------------|---------------------------------|-----------|-----------|-----------|------------|----------|--|------------|
| Size                             | 25                              | 40        | 63        | 100       | Conditions | Code     |  | Enter code |
| Extended male thread             | Extended male piston rod thread |           |           |           |            |          |  |            |
| [mm]                             | 1 ... 20                        | 1 ... 20  | 1 ... 20  | 1 ... 30  |            | -...K2   |  |            |
| Special thread on the piston rod | M10x1.25                        | M10x1.25  | M12x1.25  | M16x1.5   | [1]        | -“...”K5 |  |            |
|                                  | M10                             | M12       | M16       | M20       |            |          |  |            |
|                                  | M5                              | M8        | M10       | –         | [2]        |          |  |            |
| Extended piston rod              | Extended piston rod             |           |           |           |            |          |  |            |
| [mm]                             | 1 ... 150                       | 1 ... 150 | 1 ... 150 | 1 ... 150 | [3]        | -...K8   |  |            |
| Temperature resistance           | Heat-resistant seals max. 120°C |           |           |           |            | -S6      |  |            |
| Captive rating plate             | Laser-etched rating plate       |           |           |           |            | -TL      |  |            |

[1] K5 Only with piston rod thread A (male thread)

[2] K5 Only with piston rod thread I (female thread)

[3] K8 The sum of the stroke length and piston rod extension must not exceed the maximum permissible stroke length

## Accessories

### Foot mounting HNA

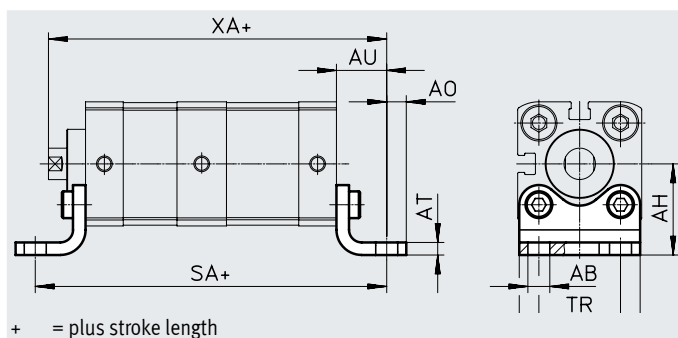
Material:

HNA: Galvanised steel

HNA-...-R3: Steel with protective coating

Free of copper and PTFE

RoHS-compliant



#### Dimensions and ordering data

| For $\varnothing$<br>[mm] | AB<br>$\varnothing$<br>H14 | AH | AO   | AT | AU | SA <sup>1)</sup> |       |       |       |
|---------------------------|----------------------------|----|------|----|----|------------------|-------|-------|-------|
|                           |                            |    |      |    |    | 2                | 3     | 4     | 5     |
| 25                        | 7                          | 29 | 6.3  | 4  | 16 | 108.3            | 142.5 | 176.7 | 210.9 |
| 40                        | 10                         | 38 | 9    |    | 18 | 122.2            | 161.5 | 202.9 | 245.9 |
| 63                        | 14.5                       | 50 | 8    | 5  | 21 | 135.3            | 177.7 | 222.2 | 268.3 |
| 100                       |                            | 74 | 12.5 | 6  | 27 | 174.9            | 226.8 | 281   | 336.8 |

| For $\varnothing$<br>[mm] | TR | US<br>-0.5 | XA <sup>1)</sup> |       |       |       |
|---------------------------|----|------------|------------------|-------|-------|-------|
|                           |    |            | 2                | 3     | 4     | 5     |
| 25                        | 26 | 38.5       | 104.5            | 138.7 | 172.9 | 207.1 |
| 40                        | 36 | 54         | 122.6            | 161.9 | 203.2 | 246.2 |
| 63                        | 50 | 75         | 135.6            | 178.0 | 222.4 | 268.5 |
| 100                       | 75 | 110        | 174.9            | 226.8 | 280.9 | 336.7 |

| For $\varnothing$<br>[mm] | Basic version     |               |          |         | R3 – High corrosion protection |               |          |            |
|---------------------------|-------------------|---------------|----------|---------|--------------------------------|---------------|----------|------------|
|                           | CRC <sup>2)</sup> | Weight<br>[g] | Part no. | Type    | CRC <sup>2)</sup>              | Weight<br>[g] | Part no. | Type       |
| 25                        | 1                 | 90            | 537240   | HNA-25  | 3                              | 90            | 537255   | HNA-25-R3  |
| 40                        | 1                 | 157           | 537242   | HNA-40  | 3                              | 157           | 537257   | HNA-40-R3  |
| 63                        | 1                 | 328           | 537244   | HNA-63  | 3                              | 328           | 537259   | HNA-63-R3  |
| 100                       | 1                 | 814           | 537250   | HNA-100 | 3                              | 814           | 537261   | HNA-100-R3 |

1) Number of stroke lengths

2 = 2x stroke length

3 = 3x stroke length

4 = 4x stroke length

2) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

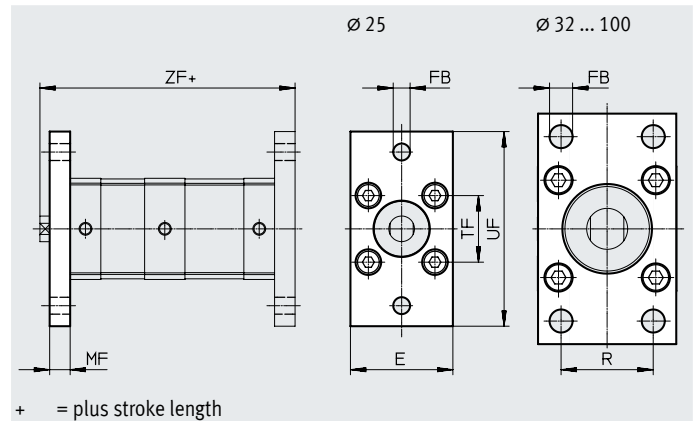
Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

## Accessories

### Flange mounting FNC

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

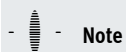


| Dimensions and ordering data |     |         |    |    |     |     |
|------------------------------|-----|---------|----|----|-----|-----|
| For Ø                        | E   | FB<br>Ø | MF | R  | TF  | UF  |
| [mm]                         |     |         |    |    |     |     |
| 25                           | 40  | 6.6     | 8  | –  | 60  | 76  |
| 40                           | 54  | 9       | 10 | 36 | 72  | 90  |
| 63                           | 75  |         | 12 | 50 | 100 | 120 |
| 100                          | 110 | 14      | 16 | 75 | 150 | 175 |

| For Ø | ZF <sup>1)</sup> |       |       |       | CRC <sup>2)</sup> | Weight<br>[g] | Part no. | Type    |
|-------|------------------|-------|-------|-------|-------------------|---------------|----------|---------|
|       | 2                | 3     | 4     | 5     |                   |               |          |         |
| [mm]  |                  |       |       |       |                   |               |          |         |
| 25    | 96.5             | 130.7 | 164.9 | 199.1 | 1                 | 165           | 537248   | FNC-25  |
| 40    | 114.6            | 153.9 | 195.2 | 238.2 | 1                 | 291           | 174377   | FNC-40  |
| 63    | 126.6            | 169.0 | 213.4 | 259.4 | 1                 | 679           | 174379   | FNC-63  |
| 100   | 163.9            | 215.8 | 269.9 | 325.7 | 1                 | 2041          | 174381   | FNC-100 |

- 1) Number of stroke lengths  
 2 = 2x stroke length  
 3 = 3x stroke length  
 4 = 4x stroke length  
 5 = 5x stroke length

- 2) Corrosion resistance class CRC 1 to Festo standard FN 940070  
 Low corrosion stress. Dry indoor application 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

Screws with a special length are required to mount diameter 100 mm.  
 Ø 100: M10x25

## Accessories

### Swivel flange

#### SNCL/SNCL-...-R3

Material:

SNCL 25:

Wrought aluminium alloy

SNCL 40 ... 63:

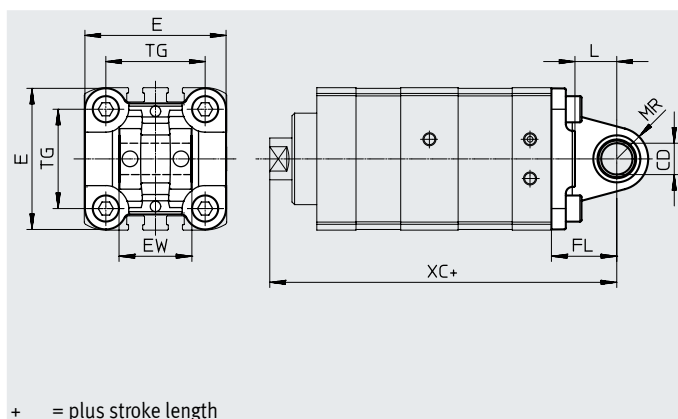
Die-cast aluminium

SNCL-...-R3:

Wrought aluminium alloy with  
protective coating

Free of copper and PTFE

RoHS-compliant



#### Dimensions and ordering data

| For $\varnothing$<br>[mm] | CD<br>$\varnothing$<br>H9 | E               | EW                | FL<br>$\pm 0.2$ | L  | MR | TG   | XC <sup>1)</sup> |       |       |       |
|---------------------------|---------------------------|-----------------|-------------------|-----------------|----|----|------|------------------|-------|-------|-------|
|                           |                           |                 |                   |                 |    |    |      | 2                | 3     | 4     | 5     |
| 25                        | 8                         | 38.5 $_{-0.6}$  | 16 h12            | 20              | 14 | 8  | 26   | 108.5            | 142.7 | 176.9 | 211.1 |
| 40                        | 12                        | 54 $_{-0.5}$    | 28 $_{-0.2/-0.6}$ | 25              | 16 | 12 | 38   | 129.6            | 168.9 | 210.2 | 253.2 |
| 63                        | 16                        | 75 $_{-0.6}$    | 40 $_{-0.2/-0.6}$ | 32              | 21 | 16 | 56.5 | 146.6            | 189.0 | 231.4 | 279.5 |
| 100                       | 20                        | 110 $+0.3/-0.8$ | 60 $_{-0.2/-0.6}$ | 41              | 27 | 20 | 89   | 188.9            | 240.8 | 294.9 | 350.7 |

| For $\varnothing$<br>[mm] | Basic version     |               |          |          | R3 – High corrosion protection |               |          |            |
|---------------------------|-------------------|---------------|----------|----------|--------------------------------|---------------|----------|------------|
|                           | CRC <sup>2)</sup> | Weight<br>[g] | Part no. | Type     | CRC <sup>2)</sup>              | Weight<br>[g] | Part no. | Type       |
| 25                        | 2                 | 41            | 537793   | SNCL-25  | 3                              | 41            | 537797   | SNCL-25-R3 |
| 40                        | 1                 | 95            | 174405   | SNCL-40  | –                              | –             | –        | –          |
| 63                        | 1                 | 225           | 174407   | SNCL-63  | –                              | –             | –        | –          |
| 100                       | 1                 | 606           | 174409   | SNCL-100 | –                              | –             | –        | –          |

- 1) Number of stroke lengths  
 2 = 2x stroke length  
 3 = 3x stroke length  
 4 = 4x stroke length  
 5 = 5x stroke length

- 2) Corrosion resistance class CRC 1 to Festo standard FN 940070  
 Low corrosion stress. Dry indoor application 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).  
 Corrosion resistance class CRC 2 to Festo standard FN 940070  
 Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.  
 Corrosion resistance class CRC 3 to Festo standard FN 940070  
 High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.



## Accessories

### Swivel flange

SNCS/CRSNCS/SNCS-...-R3

Material:

SNCS 40:

Die-cast aluminium

SNCS 63 ... 100:

Wrought aluminium alloy

CRSNCS 40 ... 63:

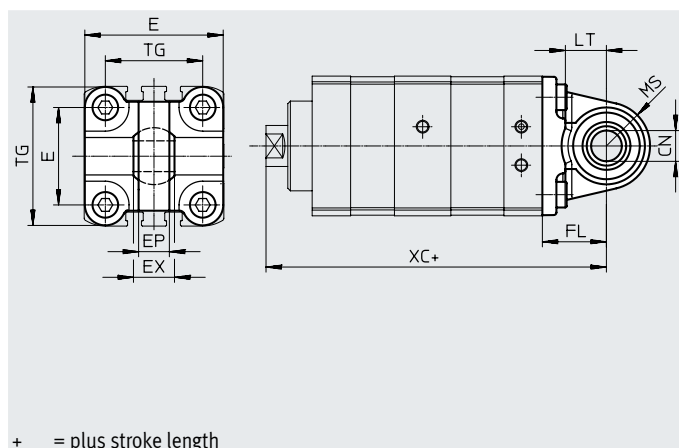
High-alloy stainless steel

SNCS-...-R3 100:

Wrought aluminium alloy with

protective coating

RoHS-compliant



+ = plus stroke length

### Dimensions and ordering data

| For $\varnothing$ | CN<br>$\varnothing$ |                     | E                |                 | EP        | EX | FL        | LT |
|-------------------|---------------------|---------------------|------------------|-----------------|-----------|----|-----------|----|
| [mm]              | ADNH-...            | ADNH-...-R3         | ADNH-...         | ADNH-...-R3     | $\pm 0.2$ |    | $\pm 0.2$ |    |
| 40                | $12^{+0.015}$       | $12^{+0.018/-0.04}$ | $54_{-0.5}$      | $54_{-0.5}$     | 12        | 16 | 25        | 16 |
| 63                | $16^{+0.015}$       | $16^{+0.018/-0.04}$ | $74.5_{\pm 0.5}$ | $75_{-0.6}$     | 15        | 21 | 32        | 21 |
| 100               | $20^{+0.018}$       | $20^{+0.021/-0.04}$ | $109^{+1/-0.7}$  | $109^{+1/-0.7}$ | 18        | 25 | 41        | 27 |

| For $\varnothing$ | MS             |                | TG   | XC <sup>1)</sup> |       |       |       |
|-------------------|----------------|----------------|------|------------------|-------|-------|-------|
| [mm]              | ADNH-...       | ADNH-...-R3    |      | 2                | 3     | 4     | 5     |
| 40                | $17^{+0.5}$    | $17^{+0.5}$    | 38   | 129.6            | 168.9 | 210.2 | 253.2 |
| 63                | $23_{-0.5}$    | $22^{+0.5}$    | 56.5 | 146.6            | 189.0 | 233.4 | 279.5 |
| 100               | $30_{\pm 0.5}$ | $30_{\pm 0.5}$ | 89   | 188.9            | 240.8 | 294.9 | 350.7 |

| For $\varnothing$ | Basic version     |            |          |          | High corrosion protection |            |          |             |
|-------------------|-------------------|------------|----------|----------|---------------------------|------------|----------|-------------|
|                   | CRC <sup>2)</sup> | Weight [g] | Part no. | Type     | CRC <sup>2)</sup>         | Weight [g] | Part no. | Type        |
| 40                | 1                 | 122        | 174398   | SNCS-40  | 4                         | 239        | 2895921  | CRSNCS-40   |
| 63                | 2                 | 281        | 174400   | SNCS-63  | 4                         | 576        | 2895923  | CRSNCS-63   |
| 100               | 2                 | 683        | 174402   | SNCS-100 | 3                         | 684        | 2895925  | SNCS-100-R3 |

- 1) Number of stroke lengths  
 2 = 2x stroke length  
 3 = 3x stroke length  
 4 = 4x stroke length  
 5 = 5x stroke length

- 2) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

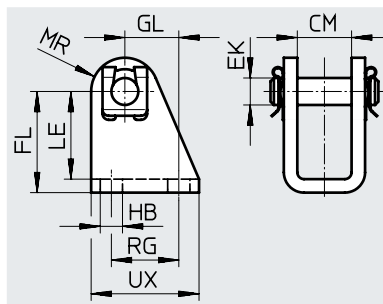
Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

## Accessories

### Clevis foot LBN

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



#### Dimensions and ordering data

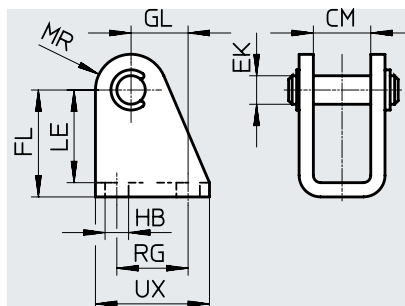
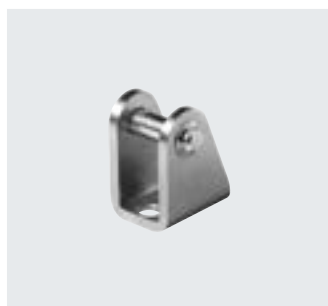
| For ø | CM   | EK<br>ø | FL           | GL | HB<br>ø | LE | MR | RG | UX | CRC <sup>1)</sup> | Weight<br>[g] | Part no.    | Type             |
|-------|------|---------|--------------|----|---------|----|----|----|----|-------------------|---------------|-------------|------------------|
| [mm]  |      |         |              |    |         |    |    |    |    |                   |               |             |                  |
| 25    | 16.1 | 8       | 30 +0.4/-0.2 | 16 | 6.6     | 26 | 10 | 20 | 32 | 1                 | 84            | <b>6059</b> | <b>LBN-20/25</b> |

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry indoor application 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).

### Clevis foot CRLBN, stainless steel

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



#### Dimensions and ordering data

| For ø | CM   | EK<br>ø | FL           | GL | HB  | LE | MR | RG | UX | CRC <sup>1)</sup> | Weight<br>[g] | Part no.      | Type               |
|-------|------|---------|--------------|----|-----|----|----|----|----|-------------------|---------------|---------------|--------------------|
| [mm]  |      |         |              |    |     |    |    |    |    |                   |               |               |                    |
| 25    | 16.1 | 8       | 30 +0.4/-0.2 | 16 | 6.6 | 26 | 10 | 20 | 32 | 4                 | 82            | <b>161863</b> | <b>CRLBN-20/25</b> |

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, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

## Accessories

### Swivel flange

#### SNCB/SNCB-...-R3

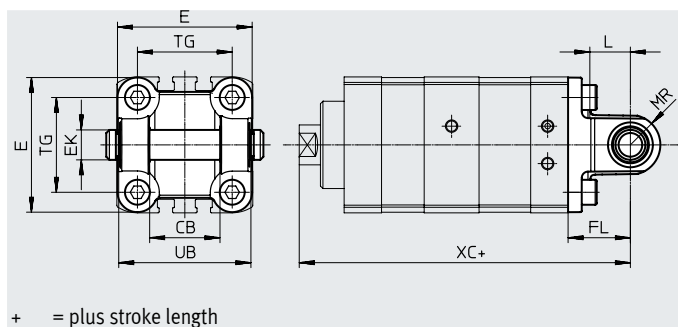
Material:

SNCB: Die-cast aluminium

SNCB-...-R3: Die-cast aluminium with protective coating

Free of copper and PTFE

RoHS-compliant



#### Dimensions and ordering data

| For ø | CB  | E   | EK<br>ø<br>H9/e8 | FL<br>±0.2 | L  | MR<br>-0.5 | TG   | UB<br>h14 | XC <sup>1)</sup> |       |       |       |
|-------|-----|-----|------------------|------------|----|------------|------|-----------|------------------|-------|-------|-------|
| [mm]  | H14 |     |                  |            |    |            |      |           | 2                | 3     | 4     | 5     |
| 40    | 28  | 54  | 12               | 25         | 16 | 12         | 38   | 52        | 129.6            | 168.9 | 210.2 | 253.2 |
| 63    | 40  | 75  | 16               | 32         | 21 | 16         | 56.5 | 70        | 146.6            | 189.0 | 233.4 | 279.5 |
| 100   | 60  | 110 | 20               | 41         | 27 | 20         | 89   | 110       | 188.9            | 240.8 | 294.9 | 350.7 |

| For ø<br>[mm] | Basic version     |               |          |          | R3 – High corrosion protection |               |          |             |
|---------------|-------------------|---------------|----------|----------|--------------------------------|---------------|----------|-------------|
|               | CRC <sup>2)</sup> | Weight<br>[g] | Part no. | Type     | CRC <sup>2)</sup>              | Weight<br>[g] | Part no. | Type        |
| 40            | 1                 | 155           | 174391   | SNCB-40  | 3                              | 151           | 176945   | SNCB-40-R3  |
| 63            | 1                 | 375           | 174393   | SNCB-63  | 3                              | 371           | 176947   | SNCB-63-R3  |
| 100           | 1                 | 1035          | 174395   | SNCB-100 | 3                              | 986           | 176949   | SNCB-100-R3 |

- 1) Number of stroke lengths  
 2 = 2x stroke length  
 3 = 3x stroke length  
 4 = 4x stroke length  
 5 = 5x stroke length

- 2) Corrosion resistance class CRC 1 to Festo standard FN 940070  
 Low corrosion stress. Dry indoor application 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).  
 Corrosion resistance class CRC 2 to Festo standard FN 940070  
 Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## Accessories

### Trunnion flange ZNCF/CRZNG

Material:

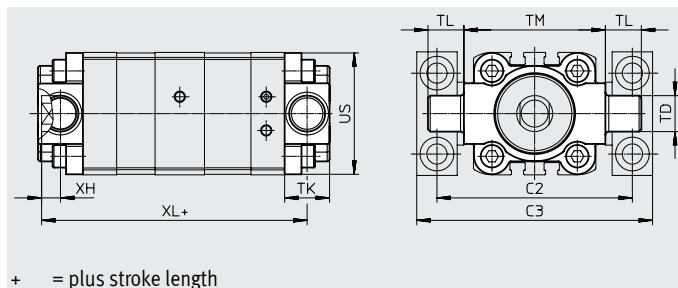
ZNCF: Stainless steel casting

CRZNG: Electropolished stainless steel

casting

Free of copper and PTFE

RoHS-compliant



| Dimensions and ordering data |     |     |         |      |                |     |     |         |                  |       |       |       |
|------------------------------|-----|-----|---------|------|----------------|-----|-----|---------|------------------|-------|-------|-------|
| For ø                        | C2  | C3  | TD      | TK   | TL             | TM  | US  | XH      | XL <sup>1)</sup> |       |       |       |
| [mm]                         |     |     | ø<br>e9 | max. |                | h14 |     |         | 2                | 3     | 4     | 5     |
| 40                           | 87  | 105 | 16      | 20   | 16 h14         | 63  | 54  | 8.4±1   | 114.6            | 153.9 | 195.2 | 238.2 |
| 63                           | 116 | 136 | 20      | 24   | 20 h14         | 90  | 75  | 9.3±1.2 | 126.6            | 169.0 | 213.4 | 259.5 |
| 100                          | 164 | 189 | 25      | 38   | 24.5 +0.5/-0.7 | 132 | 110 | 8±1.2   | 166.9            | 218.8 | 272.9 | 328.7 |

| For ø | Basic version     |            |          |          | Corrosion-resistant |            |          |           |
|-------|-------------------|------------|----------|----------|---------------------|------------|----------|-----------|
|       | CRC <sup>2)</sup> | Weight [g] | Part no. | Type     | CRC <sup>2)</sup>   | Weight [g] | Part no. | Type      |
| [mm]  |                   |            |          |          |                     |            |          |           |
| 40    | 2                 | 285        | 174412   | ZNCF-40  | 4                   | 285        | 161853   | CRZNG-40  |
| 63    | 2                 | 687        | 174414   | ZNCF-63  | 4                   | 687        | 161855   | CRZNG-63  |
| 100   | 2                 | 2254       | 174416   | ZNCF-100 | 4                   | 2254       | 161857   | CRZNG-100 |

- 1) Number of stroke lengths  
 2 = 2x stroke length  
 3 = 3x stroke length  
 4 = 4x stroke length  
 5 = 5x stroke length

- 2) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

### Trunnion support LNZZ

Material:

Trunnion support: Anodised

aluminium

Plain bearing: Polymer

Free of copper and PTFE

RoHS-compliant



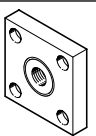
| Dimensions and ordering data |          |          |           |    |    |      |          |    |      |      |    |                   |        |          |              |
|------------------------------|----------|----------|-----------|----|----|------|----------|----|------|------|----|-------------------|--------|----------|--------------|
| For ø                        | CR       | DA       | FK        | FN | FS | H1   | HB       | KE | NH   | TH   | UL | CRC <sup>1)</sup> | Weight | Part no. | Type         |
| [mm]                         | ø<br>D11 | ø<br>H13 | ø<br>±0.1 |    |    |      | ø<br>H13 |    |      | ±0.2 |    |                   | [g]    |          |              |
| 40                           | 16       | 15       | 18        | 36 | 12 | 18   | 9        | 9  | 21   | 36   | 55 | 2                 | 129    | 32960    | LNZZ-40/50   |
| 63                           | 20       | 18       | 20        | 40 | 13 | 20   | 11       | 11 | 23   | 42   | 65 | 2                 | 178    | 32961    | LNZZ-63/80   |
| 100                          | 25       | 20       | 25        | 50 | 16 | 24.5 | 14       | 13 | 28.5 | 50   | 75 | 2                 | 306    | 32962    | LNZZ-100/125 |

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## Accessories

## Ordering data – Piston rod attachments

| Designation                                                                       | For ø | Part no. | Type         |
|-----------------------------------------------------------------------------------|-------|----------|--------------|
| Rod eye SGS                                                                       |       |          |              |
|  | 25    | 9255     | SGS-M8       |
|                                                                                   | 40    | 9262     | SGS-M12x1.25 |
|                                                                                   | 63    | 9263     | SGS-M16x1.5  |
|                                                                                   | 100   | 9264     | SGS-M20x1.5  |
| Rod clevis SG                                                                     |       |          |              |
|  | 25    | 3111     | SG-M8        |
|                                                                                   | 40    | 6145     | SG-M12x1.25  |
|                                                                                   | 63    | 6146     | SG-M16x1.5   |
|                                                                                   | 100   | 6147     | SG-M20x1.5   |
| Coupling piece KSG                                                                |       |          |              |
|  | 25    | –        |              |
|                                                                                   | 40    | 32964    | KSG-M12x1.25 |
|                                                                                   | 63    | 32965    | KSG-M16x1.5  |
|                                                                                   | 100   | 32966    | KSG-M20x1.5  |

Data sheets → Internet: piston rod attachment

| Designation                                                                       | For ø | Part no. | Type                     |
|-----------------------------------------------------------------------------------|-------|----------|--------------------------|
| Rod clevis SGA for rod eye SGS                                                    |       |          |                          |
|  | 25    | –        |                          |
|                                                                                   | 40    | 10767    | SGA-M12x1.25             |
|                                                                                   | 63    | 10768    | SGA-M16x1.5              |
|                                                                                   | 100   | 10769    | SGA-M20x1.5              |
| Self-aligning rod coupler FK                                                      |       |          |                          |
|  | 25    | 2062     | FK-M8                    |
|                                                                                   | 40    | 6141     | FK-M12x1.25              |
|                                                                                   | 63    | 6142     | FK-M16x1.5 <sup>1)</sup> |
|                                                                                   | 100   | 6143     | FK-M20x1.5 <sup>1)</sup> |



## Note

1) The maximum force of 10 000 N must not be exceeded when using these piston rod attachments

## Ordering data – Piston rod attachments, corrosion-resistant

| Designation                                                                         | For ø | Part no. | Type           |
|-------------------------------------------------------------------------------------|-------|----------|----------------|
| Rod eye CRS GS                                                                      |       |          |                |
|  | 25    | 195581   | CRSGS-M8       |
|                                                                                     | 40    | 195583   | CRSGS-M12x1.25 |
|                                                                                     | 63    | 195584   | CRSGS-M16x1.5  |
|                                                                                     | 100   | 195585   | CRSGS-M20x1.5  |
| Self-aligning rod coupler CRFK                                                      |       |          |                |
|  | 40    | 2305779  | CRFK-M12x1.25  |
|                                                                                     | 63    | 2490673  | CRFK-M16x1.5   |
|                                                                                     | 100   | 2545677  | CRFK-M20x1.5   |

Data sheets → Internet: piston rod attachment

| Designation                                                                         | For ø | Part no. | Type          |
|-------------------------------------------------------------------------------------|-------|----------|---------------|
| Rod clevis CRSG                                                                     |       |          |               |
|  | 25    | 13568    | CRSG-M8       |
|                                                                                     | 40    | 13570    | CRSG-M12x1.25 |
|                                                                                     | 63    | 13571    | CRSG-M16x1.5  |
|                                                                                     | 100   | 13572    | CRSG-M20x1.5  |



## Note

Piston rod attachments for cylinders with special piston rod thread (variant K5) → [www.festo.com](http://www.festo.com)

## Ordering data – Mounting components

| Designation                                                                         | For ø | Part no. | Type    |
|-------------------------------------------------------------------------------------|-------|----------|---------|
| Clevis foot LBG for rod eye SGS                                                     |       |          |         |
|  | 25    | –        |         |
|                                                                                     | 40    | 31762    | LBG-40  |
|                                                                                     | 63    | 31764    | LBG-63  |
|                                                                                     | 100   | 31766    | LBG-100 |

Data sheets → Internet: clevis foot

| Designation                                                                         | For ø | Part no. | Type    |
|-------------------------------------------------------------------------------------|-------|----------|---------|
| Right-angle clevis foot LQG for rod eye SGS                                         |       |          |         |
|  | 25    | –        |         |
|                                                                                     | 40    | 31769    | LQG-40  |
|                                                                                     | 63    | 31771    | LQG-63  |
|                                                                                     | 100   | 31773    | LQG-100 |

## Ordering data – Mounting components, high corrosion protection

| Designation                                                                         | For ø | Part no. | Type       |
|-------------------------------------------------------------------------------------|-------|----------|------------|
| Clevis foot LBG-R3 for rod eye SGS                                                  |       |          |            |
|  | 40    | 2078792  | LBG-40-R3  |
|                                                                                     | 63    | 2078795  | LBG-63-R3  |
|                                                                                     | 100   | 2078799  | LBG-100-R3 |

Data sheets → Internet: clevis foot

## Accessories

| Ordering data – One-way flow control valves                                        |                                                                                |                              |                       |                  |                      | Data sheets → Internet: grla |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------|-----------------------|------------------|----------------------|------------------------------|
|                                                                                    | Connection<br>For Ø                                                            | For tubing O.D.              | Material              | Part no.         | Type                 |                              |
| For exhaust air                                                                    |                                                                                |                              |                       |                  |                      |                              |
|    | 25, 40                                                                         | 3                            | Metal design          | 193137           | GRLA-M5-QS-3-D       |                              |
|                                                                                    |                                                                                | 4                            |                       | 193138           | GRLA-M5-QS-4-D       |                              |
|                                                                                    | 63, 100                                                                        | 4                            |                       | 193143           | GRLA-1/8-QS-4-D      |                              |
|                                                                                    |                                                                                | 6                            |                       | 193144           | GRLA-1/8-QS-6-D      |                              |
|                                                                                    |                                                                                | 8                            |                       | 193145           | GRLA-1/8-QS-8-D      |                              |
|                                                                                    |                                                                                |                              |                       |                  |                      |                              |
| Ordering data – Proximity switch for T-slot, magneto-resistive                     |                                                                                |                              |                       |                  |                      | Data sheets → Internet: smt  |
|                                                                                    | Type of mounting                                                               | Switching out-put            | Electrical connection | Cable length [m] | Part no.             | Type                         |
| N/O contact                                                                        |                                                                                |                              |                       |                  |                      |                              |
|    | Inserted in the slot from above, flush with the cylinder profile, short design | PNP                          | Cable, 3-wire         | 2.5              | 574335               | SMT-8M-A-PS-24V-E-2.5-OE     |
|                                                                                    |                                                                                |                              | Plug M8x1, 3-pin      | 0.3              | 574334               | SMT-8M-A-PS-24V-E-0.3-M8D    |
|                                                                                    |                                                                                |                              | Plug M12x1, 3-pin     | 0.3              | 574337               | SMT-8M-A-PS-24V-E-0.3-M12    |
|                                                                                    |                                                                                | NPN                          | Cable, 3-wire         | 2.5              | 574338               | SMT-8M-A-NS-24V-E-2.5-OE     |
|                                                                                    |                                                                                |                              | Plug M8x1, 3-pin      | 0.3              | 574339               | SMT-8M-A-NS-24V-E-0.3-M8D    |
|                                                                                    |                                                                                |                              |                       |                  |                      |                              |
| N/C contact                                                                        |                                                                                |                              |                       |                  |                      |                              |
|    | Inserted in the slot from above, flush with the cylinder profile, short design | PNP                          | Cable, 3-wire         | 7.5              | 574340               | SMT-8M-A-PO-24V-E-7.5-OE     |
| Ordering data – Proximity switch for T-slot, magnetic reed                         |                                                                                |                              |                       |                  |                      | Data sheets → Internet: sme  |
|                                                                                    | Type of mounting                                                               | Switching output             | Electrical connection | Cable length [m] | Part no.             | Type                         |
| N/O contact                                                                        |                                                                                |                              |                       |                  |                      |                              |
|  | Inserted in the slot from above, flush with the cylinder profile               | Contacting                   | Cable, 3-wire         | 2.5              | 543862               | SME-8M-DS-24V-K-2.5-OE       |
|                                                                                    |                                                                                |                              |                       | 5.0              | 543863               | SME-8M-DS-24V-K-5.0-OE       |
|                                                                                    |                                                                                |                              | Cable, 2-wire         | 2.5              | 543872               | SME-8M-ZS-24V-K-2.5-OE       |
|                                                                                    |                                                                                |                              | Plug M8x1, 3-pin      | 0.3              | 543861               | SME-8M-DS-24V-K-0.3-M8D      |
|                                                                                    | Inserted in the slot lengthwise, flush with the cylinder profile               | Contacting                   | Cable, 3-wire         | 2.5              | 150855               | SME-8-K-LED-24               |
|                                                                                    |                                                                                |                              | Plug M8x1, 3-pin      | 0.3              | 150857               | SME-8-S-LED-24               |
| N/C contact                                                                        |                                                                                |                              |                       |                  |                      |                              |
|  | Inserted in the slot lengthwise, flush with the cylinder profile               | Contacting                   | Cable, 3-wire         | 7.5              | 160251               | SME-8-O-K-LED-24             |
| Ordering data – Connecting cables                                                  |                                                                                |                              |                       |                  |                      | Data sheets → Internet: nebu |
|                                                                                    | Electrical connection, left                                                    | Electrical connection, right | Cable length [m]      | Part no.         | Type                 |                              |
|  | Straight socket, M8x1, 3-pin                                                   | Cable, open end, 3-wire      | 2.5                   | 541333           | NEBU-M8G3-K-2.5-LE3  |                              |
|                                                                                    |                                                                                |                              | 5                     | 541334           | NEBU-M8G3-K-5-LE3    |                              |
|                                                                                    | Straight socket, M12x1, 5-pin                                                  | Cable, open end, 3-wire      | 2.5                   | 541363           | NEBU-M12G5-K-2.5-LE3 |                              |
|                                                                                    |                                                                                |                              | 5                     | 541364           | NEBU-M12G5-K-5-LE3   |                              |
|  | Angled socket, M8x1, 3-pin                                                     | Cable, open end, 3-wire      | 2.5                   | 541338           | NEBU-M8W3-K-2.5-LE3  |                              |
|                                                                                    |                                                                                |                              | 5                     | 541341           | NEBU-M8W3-K-5-LE3    |                              |
|                                                                                    | Angled socket, M12x1, 5-pin                                                    | Cable, open end, 3-wire      | 2.5                   | 541367           | NEBU-M12W5-K-2.5-LE3 |                              |
|                                                                                    |                                                                                |                              | 5                     | 541370           | NEBU-M12W5-K-5-LE3   |                              |

## Accessories

| Ordering data – Proximity switch, cuboid shape, pneumatic                         |                      |          | Data sheets → Internet: smpo |                |
|-----------------------------------------------------------------------------------|----------------------|----------|------------------------------|----------------|
|                                                                                   | Pneumatic connection |          | Part no.                     | Type           |
| <b>3/2-way valve, normally closed</b>                                             |                      |          |                              |                |
|  | Female thread M5     |          | <b>178563</b>                | <b>SMPO-8E</b> |
| Ordering data – Mounting kit for proximity switch SMPO-8E                         |                      |          | Data sheets → Internet: smb  |                |
|                                                                                   | Mounting             |          | Part no.                     | Type           |
|  | Clamped in T-slot    |          | <b>178230</b>                | <b>SMB-8E</b>  |
| Ordering data – Slot cover for T-slot                                             |                      |          |                              |                |
|                                                                                   | Mounting             | Length   | Part no.                     | Type           |
|  | Insertable           | 2x 0.5 m | <b>151680</b>                | <b>ABP-5-S</b> |