



## Short-stroke cylinders ADVC/AEVC

**FESTO**



## Key features

### At a glance

-  Diameter  
4 ... 100 mm
-  Stroke length  
2.5 ... 25 mm

Short-stroke cylinders are ideal for clamping tasks with short strokes, e.g. in machining jigs.

They offer:

- Rapid response when pressure is applied
- Large clamping forces in comparison to their size
- Minimal installation space
- Integrated sensor slots for contacting or contactless proximity sensors
- Hole pattern for mounting as per VDMA 24562 for  $\varnothing$  32 ... 100 mm

$\varnothing$  4 ... 25



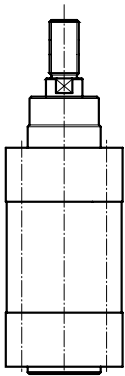
$\varnothing$  6 ... 25



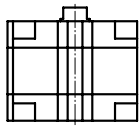
$\varnothing$  32 ... 100



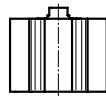
Installation space per 10 mm stroke



Standards-based cylinder



Compact cylinder



Short-stroke cylinder

## Type codes

| 001         | Series                               |
|-------------|--------------------------------------|
| <b>ADVC</b> | Short-stroke cylinder, double-acting |
| <b>AEVC</b> | Short-stroke cylinder, single-acting |

| 002        | Piston diameter |
|------------|-----------------|
| <b>4</b>   | 4               |
| <b>6</b>   | 6               |
| <b>10</b>  | 10              |
| <b>12</b>  | 12              |
| <b>16</b>  | 16              |
| <b>20</b>  | 20              |
| <b>25</b>  | 25              |
| <b>32</b>  | 32              |
| <b>40</b>  | 40              |
| <b>50</b>  | 50              |
| <b>63</b>  | 63              |
| <b>80</b>  | 80              |
| <b>100</b> | 100             |









| 003        | Stroke |
|------------|--------|
| <b>2.5</b> | 2.5    |
| <b>5</b>   | 5      |
| <b>10</b>  | 10     |
| <b>15</b>  | 15     |
| <b>20</b>  | 20     |
| <b>25</b>  | 25     |

| 004      | Piston rod thread |
|----------|-------------------|
| <b>A</b> | Male thread       |
| <b>I</b> | Female thread     |
|          | None              |

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

| 006      | Position sensing     |
|----------|----------------------|
|          | None                 |
| <b>A</b> | For proximity sensor |

Product range overview

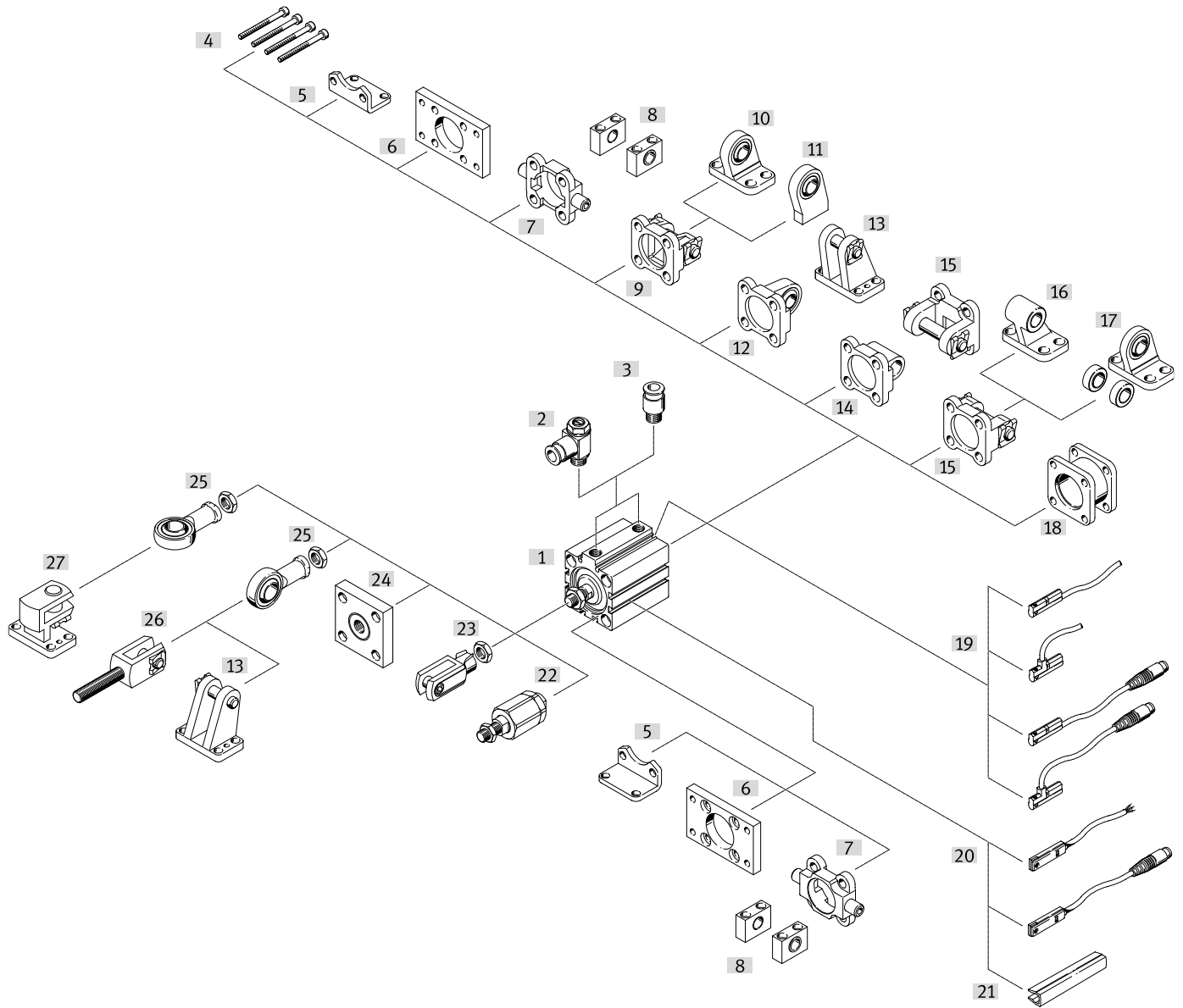
| Function            | Design  | Type  | Piston $\varnothing$<br>[mm] | Stroke<br>[mm]    | Position sensing |
|---------------------|---|---|------------------------------|-------------------|------------------|
| Double-acting       | <b>Without position sensing</b>   |   |                              |                   |                  |
|                     |    | <b>ADVC</b><br>$\varnothing$ 4 ... 25         | 4                            | 2.5; 5            | -                |
|                     |   |   | 6, 10, 12                    | 5, 10             |                  |
|                     |   |   | 16, 20, 25                   | 5, 10, 15, 20, 25 |                  |
|                     |    | <b>ADVC</b><br>$\varnothing$ 32 ... 100       | 32, 40                       | 5, 10, 15, 20, 25 | -                |
|                     |   |   | 50, 63, 80, 100              | 10, 15, 20, 25    |                  |
|                     | <b>With position sensing</b>  |   |                              |                   |                  |
|                     |    | <b>ADVC-...-A</b><br>$\varnothing$ 6 ... 25   | 6, 10, 12                    | 5, 10             | ■                |
|                     |   |   | 16, 20, 25                   | 5, 10, 15, 20, 25 |                  |
|                     |    | <b>ADVC-...-A</b><br>$\varnothing$ 32 ... 100 | 32, 40                       | 5, 10, 15, 20, 25 | ■                |
| 50, 63, 80, 100     |   |   | 10, 15, 20, 25               |                   |                  |
| Single-acting       | <b>Without position sensing</b>   |   |                              |                   |                  |
|                     |    | <b>AEVC</b><br>$\varnothing$ 4 ... 25         | 4                            | 2.5; 5            | -                |
|                     |   |   | 6, 10, 12                    | 5, 10             |                  |
|                     |   |   | 16, 20, 25                   | 5, 10, 25         |                  |
|                     |   | <b>AEVC</b><br>$\varnothing$ 32 ... 100       | 32                           | 5, 10, 25         | -                |
|                     |   |   | 40, 50, 63, 80, 100          | 10, 25            |                  |
|                     | <b>With position sensing</b>  |   |                              |                   |                  |
|                     |  | <b>AEVC-...-A</b><br>$\varnothing$ 6 ... 25   | 6, 10, 12                    | 5, 10             | ■                |
|                     |   |   | 16, 20, 25                   | 5, 10, 25         |                  |
|                     |  | <b>AEVC-...-A</b><br>$\varnothing$ 32 ... 100 | 32                           | 5, 10, 25         | ■                |
| 40, 50, 63, 80, 100 |   |   | 10, 25                       |                   |                  |

## Product range overview

| Type                              | Piston rod       |                    |                 | Cushioning | → Page/Internet |
|-----------------------------------|------------------|--------------------|-----------------|------------|-----------------|
|                                   | With male thread | With female thread | Without thread  |            |                 |
| <b>Without position sensing</b>   |                  |                    |                 |            |                 |
| <b>ADVC</b><br>ø 4 ... 25         | ■                | ■<br>from ø 12     | ■<br>ø 4 ... 12 | ■          | 8               |
| <b>ADVC</b><br>ø 32 ... 100       | ■                | ■                  | –               | ■          | 8               |
| <b>With position sensing</b>      |                  |                    |                 |            |                 |
| <b>ADVC-...-A</b><br>ø 6 ... 25   | ■                | ■<br>from ø 12     | ■<br>ø 6 ... 12 | ■          | 16              |
| <b>ADVC-...-A</b><br>ø 32 ... 100 | ■                | ■                  | –               | ■          | 16              |
| <b>Without position sensing</b>   |                  |                    |                 |            |                 |
| <b>AEVC</b><br>ø 4 ... 25         | ■                | ■<br>from ø 12     | ■<br>ø 4 ... 12 | ■          | 24              |
| <b>AEVC</b><br>ø 32 ... 100       | ■                | ■                  | –               | ■          | 24              |
| <b>With position sensing</b>      |                  |                    |                 |            |                 |
| <b>AEVC-...-A</b><br>ø 6 ... 25   | ■                | ■<br>from ø 12     | ■<br>ø 6 ... 12 | ■          | 32              |
| <b>AEVC-...-A</b><br>ø 32 ... 100 | ■                | ■                  | –               | ■          | 32              |

Peripherals overview

∅ 32 ... 100 mm



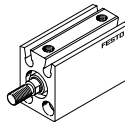
∅ 4 ... 25 mm

Without position sensing



∅ 6 ... 25 mm

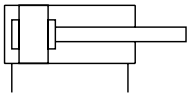
With position sensing



## Peripherals overview

| Mounting attachments and accessories |   | Description  | Piston $\varnothing$     |               |              | → Page/Internet |
|--------------------------------------|---|--|--------------------------|---------------|--------------|-----------------|
|                                      |   |  | 4, 6, 12                 | 10, 16 ... 25 | 32 ... 100   |                 |
| [1]                                  | Short-stroke cylinder<br>ADVC             | Double-acting  | Without position sensing | 4 ... 100     |              |                 |
|                                      |   |  | With position sensing    | 6 ... 100     |              |                 |
|                                      | Short-stroke cylinder<br>AEVC             | Single-acting  | Without position sensing | 4 ... 100     |              |                 |
|                                      |   |  | With position sensing    | 6 ... 100     |              |                 |
| [2]                                  | One-way flow control valve<br>GRLA        | For speed regulation   | ■                        | ■             | ■            | 50              |
| [3]                                  | Push-in fitting<br>QS                     | For connecting compressed air tubing with standard O.D.  | ■                        | ■             | ■            | qs              |
| [4]                                  | Mounting screws                           | Not included in the scope of delivery  | ■<br>DIN 84              | ■<br>DIN 912  | ■<br>DIN 912 | –               |
|                                      | Mounting screws for $\varnothing$ 80, 100 | Not included in the scope of delivery  | –                        | –             | ■            | –               |
| [5]                                  | Foot mounting<br>HNC                      | For bearing and end caps   | –                        | –             | ■            | 39              |
| [6]                                  | Flange mounting<br>FNC                    | For bearing or end caps  | –                        | –             | ■            | 40              |
| [7]                                  | Trunnion flange<br>ZNCF                   | For bearing or end caps  | –                        | –             | ■            | 41              |
| [8]                                  | Trunnion support<br>LNZG                  | –  | –                        | –             | ■            | 42              |
| [9]                                  | Swivel flange<br>SNC                      | For end caps   | –                        | –             | ■            | 43              |
| [10]                                 | Clevis foot<br>LSNG                       | With spherical bearing   | –                        | –             | ■            | 47              |
| [11]                                 | Clevis foot<br>LSNSG                      | Weld-on, with spherical bearing  | –                        | –             | ■            | 47              |
| [12]                                 | Swivel flange<br>SNCS                     | With spherical bearing for end caps  | –                        | –             | ■            | 45              |
| [13]                                 | Clevis foot<br>LBG                        | –  | –                        | –             | ■            | 47              |
| [14]                                 | Swivel flange<br>SNCL                     | For end caps   | –                        | –             | ■            | 46              |
| [15]                                 | Swivel flange<br>SNCB                     | For end caps   | –                        | –             | ■            | 44              |
| [16]                                 | Clevis foot<br>LNG                        | –  | –                        | –             | ■            | 47              |
| [17]                                 | Clevis foot<br>LSN                        | With spherical bearing   | –                        | –             | ■            | 47              |
| [18]                                 | Multi-position kit<br>DPNC                | For connecting two cylinders with identical piston diameters to form a multi-position cylinder | –                        | –             | ■            | 38              |
| [19]                                 | Proximity sensor<br>SME/SMT-10            | Can be integrated in the cylinder profile barrel   | –                        | ■             | ■            | 49              |
| [20]                                 | Proximity sensor<br>SME/SMT-8             | Can be integrated in the cylinder profile barrel   | –                        | –             | ■            | 49              |
| [21]                                 | Slot cover<br>ABP-5-S                     | For protecting the sensor cable and the sensor slots from contamination                        | –                        | –             | ■            | 49              |
| [22]                                 | Self-aligning rod coupler<br>FK           | For compensating radial and angular deviations   | ■<br>$\varnothing$ 12    | ■             | ■            | 48              |
| [23]                                 | Rod clevis<br>SG                          | Permits a swivelling movement of the cylinder in one plane                                     | –                        | ■             | ■            | 48              |
| [24]                                 | Coupling piece<br>KSG                     | To compensate for radial deviations  | –                        | –             | ■            | 48              |
| [25]                                 | Rod eye<br>SGS                            | With spherical bearing   | –                        | ■             | ■            | 48              |
| [26]                                 | Rod clevis<br>SGA                         | With male thread   | –                        | –             | ■            | 48              |
| [27]                                 | Right-angle clevis foot<br>LQG            | –  | –                        | ■             | ■            | 47              |

Data sheet – Double-acting, without position sensing



- $\varnothing$  - Diameter  
4 ... 100 mm
- | - Stroke length  
2.5 ... 25 mm

| General technical data             |  | 4  | 6  | 10 | 12 | 16 | 20 | 25 | 32               | 40   | 50   | 63   | 80   | 100  |  |
|------------------------------------|--|--|----|----|----|----|----|----|------------------|------|------|------|------|------|--|
| Piston $\varnothing$               |  | 4  | 6  | 10 | 12 | 16 | 20 | 25 | 32               | 40   | 50   | 63   | 80   | 100  |  |
| Pneumatic connection               |  | M3   | M3 | M5 | M5 | M5 | M5 | M5 | G1/8             | G1/8 | G1/8 | G1/8 | G1/8 | G1/4 |  |
| Piston rod with female thread      |  | -  | -  | -  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |  |
| Piston rod with male thread        |  | ■  | ■  | ■  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |  |
| Piston rod without thread          |  | ■  | ■  | ■  | ■  | -  | -  | -  | -                | -    | -    | -    | -    | -    |  |
| 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) |    |    |    |    |    |    |                  |      |      |      |      |      |  |
| Design                             |  | Piston   |    |    |    |    |    |    |                  |      |      |      |      |      |  |
|                                    |  | Piston rod   |    |    |    |    |    |    |                  |      |      |      |      |      |  |
| Cushioning                         |  | Elastic cushioning rings/pads at both ends   |    |    |    |    |    |    |                  |      |      |      |      |      |  |
| Type of mounting                   |  | Via through-hole   |    |    |    |    |    |    | Via through-hole |      |      |      |      |      |  |
|                                    |  | -  |    |    |    |    |    |    | Via accessories  |      |      |      |      |      |  |
| Mounting position                  |  | Any  |    |    |    |    |    |    |                  |      |      |      |      |      |  |

| Operating conditions                         |       | 4                        | 6                | 10              | 12           | 16 | 20 | 25 | 32 | 40 | 50 | 63          | 80 | 100          |  |
|--|-------|--------------------------|------------------|-----------------|--------------|----|----|----|----|----|----|-------------|----|--------------|--|
| Operating pressure                           | [MPa] | 0.2 ...<br>0.8           | 0.15 ...<br>0.8  | 0.1 ...<br>0.8  | 0.1 ... 1    |    |    |    |    |    |    | 0.06 ... 1  |    | 0.1 ... 1    |  |
|  | [bar] | 2 ... 8                  | 1.5 ... 8        | 1 ... 8         | 1 ... 10     |    |    |    |    |    |    | 0.6 ... 10  |    | 1 ... 10     |  |
|  | [psi] | 29 ...<br>116            | 21.75 ...<br>116 | 14.5 ...<br>116 | 14.5 ... 145 |    |    |    |    |    |    | 8.7 ... 145 |    | 14.5 ... 145 |  |
|  |       |                          |                  |                 |              |    |    |    |    |    |    |             |    |              |  |
| Ambient temperature                          | [°C]  | -20 ... +80              |                  |                 |              |    |    |    |    |    |    |             |    |              |  |
| Corrosion resistance class CRC <sup>1)</sup> |       | 1 – Low corrosion stress |                  |                 |              |    |    |    |    |    |    |             |    |              |  |

1) More information: [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)



## Data sheet – Double-acting, without position sensing

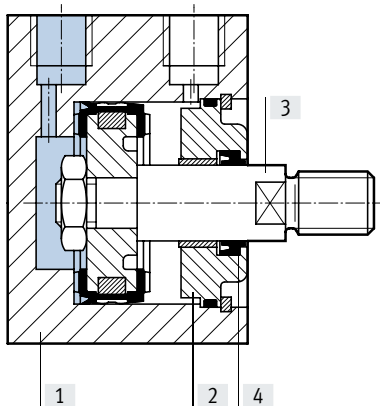
| Forces [N] and impact energy [J]                         |       |       |      |      |      |      |      |      |      |      |      |      |      |
|--|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| Piston $\varnothing$                                     | 4     | 6     | 10   | 12   | 16   | 20   | 25   | 32   | 40   | 50   | 63   | 80   | 100  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing  | 7.5   | 17    | 47   | 68   | 121  | 189  | 295  | 483  | 754  | 1178 | 1870 | 3016 | 4712 |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 5.7   | 13    | 40   | 51   | 91   | 141  | 247  | 415  | 686  | 1056 | 1750 | 2847 | 4418 |
| Max. impact energy in the end positions                  | 0.003 | 0.005 | 0.03 | 0.06 | 0.10 | 0.14 | 0.18 | 0.26 | 0.36 | 0.60 | 0.64 | 0.90 | 1.20 |

| Product weight [g] |                      |     |    |    |    |     |     |     |     |     |     |      |      |
|--------------------|----------------------|-----|----|----|----|-----|-----|-----|-----|-----|-----|------|------|
| Stroke [mm]        | Piston $\varnothing$ |     |    |    |    |     |     |     |     |     |     |      |      |
|                    | 4                    | 6   | 10 | 12 | 16 | 20  | 25  | 32  | 40  | 50  | 63  | 80   | 100  |
| 2.5                | 3                    | –   | –  | –  | –  | –   | –   | –   | –   | –   | –   | –    | –    |
| 5                  | 4.2                  | 7.5 | 20 | 30 | 43 | 80  | 102 | 173 | 250 | –   | –   | –    | –    |
| 10                 | –                    | 10  | 21 | 35 | 51 | 95  | 116 | 193 | 270 | 388 | 590 | 1052 | 2079 |
| 15                 | –                    | –   | –  | –  | 58 | 106 | 129 | 210 | 290 | 411 | 663 | 1102 | 2161 |
| 20                 | –                    | –   | –  | –  | 66 | 119 | 145 | 229 | 321 | 447 | 704 | 1167 | 2338 |
| 25                 | –                    | –   | –  | –  | 72 | 131 | 157 | 246 | 344 | 481 | 742 | 1219 | 2400 |

| Moving mass [g] |                      |     |     |     |    |    |    |    |    |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|
| Stroke [mm]     | Piston $\varnothing$ |     |     |     |    |    |    |    |    |     |     |     |     |
|                 | 4                    | 6   | 10  | 12  | 16 | 20 | 25 | 32 | 40 | 50  | 63  | 80  | 100 |
| 2.5             | 0.2                  | –   | –   | –   | –  | –  | –  | –  | –  | –   | –   | –   | –   |
| 5               | 0.25                 | 1.2 | 2.8 | 6.6 | 11 | 22 | 27 | 46 | 69 | –   | –   | –   | –   |
| 10              | –                    | 1.5 | 3.3 | 7.7 | 13 | 25 | 30 | 51 | 74 | 127 | 178 | 339 | 719 |
| 15              | –                    | –   | –   | –   | 15 | 28 | 33 | 56 | 79 | 135 | 186 | 351 | 739 |
| 20              | –                    | –   | –   | –   | 17 | 31 | 36 | 61 | 84 | 143 | 194 | 363 | 759 |
| 25              | –                    | –   | –   | –   | 19 | 34 | 39 | 66 | 89 | 151 | 202 | 375 | 779 |

## Materials

Sectional view



| Short-stroke cylinder | $\varnothing 4$  | $\varnothing 6 \dots 100$                                |
|-----------------------|--|--|
| [1] Cylinder barrel   | Anodised aluminium                                       | Anodised aluminium                                       |
| [2] Cover             | Anodised aluminium                                       | Anodised aluminium                                       |
| [3] Piston rod        | Anodised aluminium                                       | High-alloy steel   |
| [4] Rod seal          | Nitrile rubber   | Polyurethane   |
| – Note on materials   | RoHS-compliant   | RoHS-compliant   |
| – PWIS conformity     | VDMA24364-B1/B2-L  | VDMA24364-B1/B2-L  |
| – PWIS criterion      | Free of paint-wetting impairment substances to FN 942010 | Free of paint-wetting impairment substances to FN 942010 |

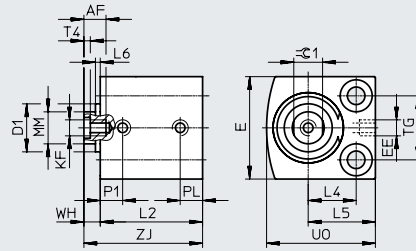
Data sheet – Double-acting, without position sensing

Dimensions

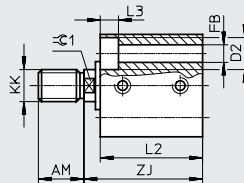
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 4 ... 25 mm

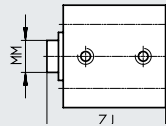
ADVC-...-I-P, piston rod with female thread



ADVC-...-A-P, piston rod with male thread



ADVC-...-P, piston rod without thread



∅ 4 mm:

Do not exceed the maximum screw-in depth of 3 mm and maximum tightening torque of 0.7 Nm.

∅ 10 mm

The bearing cap can protrude up to 0.65 mm depending on the tolerance position.

∅ 12 mm

The bearing cap can protrude up to 0.35 mm depending on the tolerance position.

[1] No undercut with diameter 4/6/10

## Data sheet – Double-acting, without position sensing

| ∅<br>[mm] | Stroke<br>[mm] | AF<br>min. | AM<br>-0.5 | D1<br>∅<br>max. | D2<br>∅             | E<br>max. | EE | FB<br>∅ | KF | KK | L2<br>+0.2 | L3  |
|-----------|----------------|------------|------------|-----------------|---------------------|-----------|----|---------|----|----|------------|-----|
| 4         | 2.5            | -          | 6          | -               | 3.3 <sup>+0.1</sup> | 10        | M3 | 1.8     | -  | M2 | 13         | 1.8 |
|           | 5              |            |            |                 |                     |           |    |         |    |    | 15.5       |     |
| 6         | 5              | -          | 6          | -               | 5 <sup>+0.1</sup>   | 13        | M3 | 2.9     | -  | M3 | 16         | 2.9 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 21         |     |
| 10        | 5              | -          | 8          | 7.5             | 5.8 <sup>+0.1</sup> | 18        | M5 | 3.4     | -  | M4 | 21         | 3.4 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 24         |     |
| 12        | 5              | 8          | 8          | 10.7            | 6 <sup>H13</sup>    | 20        | M5 | 3.4     | M3 | M5 | 23         | 3.4 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 28         |     |
| 16        | 5              | 10         | 12         | -               | 8 <sup>H13</sup>    | 25        | M5 | 4.5     | M4 | M6 | 23         | 4.6 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 28         |     |
|           | 15             |            |            |                 |                     |           |    |         |    |    | 33         |     |
|           | 20             |            |            |                 |                     |           |    |         |    |    | 38         |     |
|           | 25             |            |            |                 |                     |           |    |         |    |    | 43         |     |
| 20        | 5              | 12         | 12         | -               | 10 <sup>H13</sup>   | 32        | M5 | 5.5     | M5 | M8 | 27         | 5.7 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 32         |     |
|           | 15             |            |            |                 |                     |           |    |         |    |    | 37         |     |
|           | 20             |            |            |                 |                     |           |    |         |    |    | 42         |     |
|           | 25             |            |            |                 |                     |           |    |         |    |    | 47         |     |
| 25        | 5              | 12         | 12         | -               | 10 <sup>H13</sup>   | 38        | M5 | 5.5     | M5 | M8 | 27.5       | 5.7 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 32.5       |     |
|           | 15             |            |            |                 |                     |           |    |         |    |    | 37.5       |     |
|           | 20             |            |            |                 |                     |           |    |         |    |    | 42.5       |     |
|           | 25             |            |            |                 |                     |           |    |         |    |    | 47.5       |     |

| ∅<br>[mm] | Stroke<br>[mm] | L4   | L5   | L6<br>max. | MM<br>∅ | P1   | PL   | T4  | TG<br>±0.1 | UO<br>max. | WH  | ZJ<br>±0.8 | ≅G1 |
|-----------|----------------|------|------|------------|---------|------|------|-----|------------|------------|-----|------------|-----|
| 4         | 2.5            | 4    | 6.5  | -          | 2       | 3.7  | 3.2  | -   | 5.8        | 10         | 1   | 14         | -   |
|           | 5              |      |      |            |         |      |      |     |            |            |     | 16.5       |     |
| 6         | 5              | 6    | 9    | -          | 3       | 4.7  | 3    | -   | 7          | 14         | 1   | 17         | -   |
|           | 10             |      |      |            |         |      |      |     |            |            |     | 22         |     |
| 10        | 5              | 8    | 11.5 | 0.7        | 4       | 5.2  | 5.2  | -   | 11         | 19         | 1.5 | 22.5       | -   |
|           | 10             |      |      |            |         | 6    | 5.5  |     |            |            |     | 25.5       |     |
| 12        | 5              | 9    | 13   | 0.4        | 6       | 5.75 | 5.75 | 1.5 | 13         | 22         | 4   | 27         | 5   |
|           | 10             |      |      |            |         | 9    | 6    |     |            |            |     | 32         |     |
| 16        | 5              | 11.5 | 16.5 | -          | 8       | 6    | 6    | 2   | 15         | 27         | 4   | 27         | 7   |
|           | 10             |      |      |            |         | 7.5  |      |     |            |            |     | 32         |     |
|           | 15             |      |      |            |         |      | 37   |     |            |            |     |            |     |
|           | 20             |      |      |            |         |      | 42   |     |            |            |     |            |     |
|           | 25             |      |      |            |         |      | 47   |     |            |            |     |            |     |
| 20        | 5              | 15   | 21   | -          | 10      | 7.5  | 7    | 2   | 20         | 34         | 5   | 32         | 9   |
|           | 10             |      |      |            |         |      |      |     |            |            |     | 37         |     |
|           | 15             |      |      |            |         |      |      |     |            |            |     | 42         |     |
|           | 20             |      |      |            |         |      |      |     |            |            |     | 47         |     |
|           | 25             |      |      |            |         |      |      |     |            |            |     | 52         |     |
| 25        | 5              | 15.5 | 21.5 | -          | 10      | 8    | 6.5  | 2   | 26         | 37         | 5   | 32.5       | 9   |
|           | 10             |      |      |            |         |      |      |     |            |            |     | 37.5       |     |
|           | 15             |      |      |            |         |      |      |     |            |            |     | 42.5       |     |
|           | 20             |      |      |            |         |      |      |     |            |            |     | 47.5       |     |
|           | 25             |      |      |            |         |      |      |     |            |            |     | 52.5       |     |

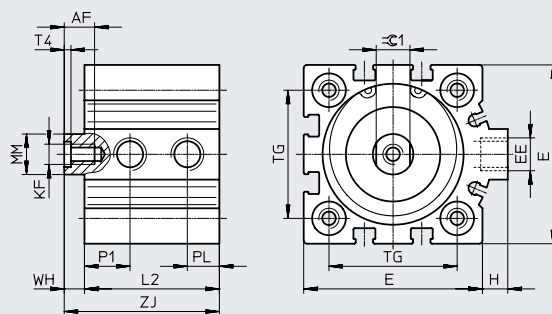
Data sheet – Double-acting, without position sensing

Dimensions

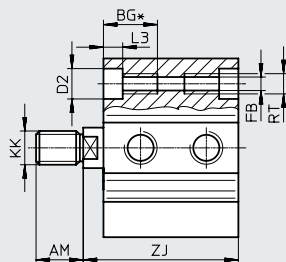
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 32 ... 100 mm

ADVC-...-I-P, piston rod with female thread



ADVC-...-A-P\*\*, piston rod with male thread



| ∅<br>[mm] | AF<br>min. | AM<br>-0.5 | BG*<br>min. | D2<br>∅<br>F9 | E<br>max. | EE   | FB<br>∅ | H   | KF  | KK       |
|-----------|------------|------------|-------------|---------------|-----------|------|---------|-----|-----|----------|
| 32        | 12         | 14         | 21.7        | 9             | 45        | G1/8 | 5.2     | 7   | M6  | M10x1.25 |
| 40        | 12         | 14         | 21.7        | 9             | 53.5      | G1/8 | 5.2     | 7   | M6  | M10x1.25 |
| 50        | 16         | 16         | 22.8        | 11            | 63.5      | G1/8 | 6.8     | 7   | M8  | M12x1.25 |
| 63        | 16         | 16         | 22.8        | 11            | 75        | G1/8 | 6.8     | 7.5 | M8  | M12x1.25 |
| 80        | 20         | 22         | 25          | 14            | 93        | G1/8 | 8.5     | 7   | M10 | M16x1.5  |
| 100       | 24         | 28         | 25          | 14            | 113       | G1/4 | 8.5     | 13  | M12 | M20x1.5  |


\* Continuous thread with shorter sizes


\*\* Nut for piston rod thread included in the scope of delivery

## Data sheet – Double-acting, without position sensing

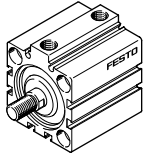
| ∅<br>[mm] | Stroke<br>[mm] | L2<br>+0.2 | L3  | MM<br>∅ | P1   | PL   | RT  | T4  | TG<br>±0.1 | WH | ZJ<br>±0.8 | ≈G1 |
|-----------|----------------|------------|-----|---------|------|------|-----|-----|------------|----|------------|-----|
| 32        | 5              | 34         | 5.7 | 12      | 9    | 8.5  | M6  | 2.6 | 32.5       | 6  | 40         | 10  |
|           | 10             | 39         |     |         |      |      |     |     |            |    | 45         |     |
|           | 15             | 44         |     |         |      |      |     |     |            |    | 50         |     |
|           | 20             | 49         |     |         |      |      |     |     |            |    | 55         |     |
|           | 25             | 54         |     |         |      |      |     |     |            |    | 60         |     |
| 40        | 5              | 34.5       | 5.7 | 12      | 11   | 9    | M6  | 2.6 | 38         | 6  | 40.5       | 10  |
|           | 10             | 39.5       |     |         |      |      |     |     |            |    | 45.5       |     |
|           | 15             | 44.5       |     |         |      |      |     |     |            |    | 50.5       |     |
|           | 20             | 49.5       |     |         |      |      |     |     |            |    | 55.5       |     |
|           | 25             | 54.5       |     |         |      |      |     |     |            |    | 60.5       |     |
| 50        | 10             | 38         | 6.8 | 16      | 11.3 | 9.5  | M8  | 3.3 | 46.5       | 8  | 46         | 13  |
|           | 15             | 43         |     |         |      |      |     |     |            |    | 51         |     |
|           | 20             | 48         |     |         |      |      |     |     |            |    | 56         |     |
|           | 25             | 53         |     |         |      |      |     |     |            |    | 61         |     |
| 63        | 10             | 45         | 6.8 | 16      | 12.5 | 11.5 | M8  | 3.3 | 56.5       | 8  | 53         | 13  |
|           | 15             | 50         |     |         |      |      |     |     |            |    | 58         |     |
|           | 20             | 55         |     |         |      |      |     |     |            |    | 63         |     |
|           | 25             | 60         |     |         |      |      |     |     |            |    | 68         |     |
| 80        | 10             | 50         | 9   | 20      | 15   | 15   | M10 | 4.7 | 72         | 8  | 58         | 17  |
|           | 15             | 55         |     |         |      |      |     |     |            |    | 63         |     |
|           | 20             | 60         |     |         |      |      |     |     |            |    | 68         |     |
|           | 25             | 65         |     |         |      |      |     |     |            |    | 73         |     |
| 100       | 10             | 59         | 9   | 25      | 16.5 | 19   | M10 | 6.1 | 89         | 10 | 69         | 22  |
|           | 15             | 64         |     |         |      |      |     |     |            |    | 74         |     |
|           | 20             | 69         |     |         |      |      |     |     |            |    | 79         |     |
|           | 25             | 74         |     |         |      |      |     |     |            |    | 84         |     |

Data sheet – Double-acting, without position sensing

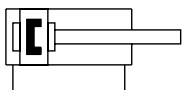
| Ordering data  |                  |                |                              |              |
|--|------------------|----------------|------------------------------|--------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>without thread |              |
|  |                  |                | Part no.                     | Type         |
|  | 4                | 2.5            | 526897                       | ADVC-4-2,5-P |
|  |                  | 5              | 526898                       | ADVC-4-5-P   |
|  | 6                | 5              | 526899                       | ADVC-6-5-P   |
|  |                  | 10             | 526900                       | ADVC-6-10-P  |
|  | 10               | 5              | 526903                       | ADVC-10-5-P  |
|  |                  | 10             | 526904                       | ADVC-10-10-P |
|  | 12               | 5              | 530568                       | ADVC-12-5-P  |
|  |                  | 10             | 530569                       | ADVC-12-10-P |

| Ordering data  |                  |                |                                |                |                                  |                |        |                |
|--|------------------|----------------|--------------------------------|----------------|----------------------------------|----------------|--------|----------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                | Piston rod<br>with female thread |                |        |                |
|  |                  |                | Part no.                       | Type           | Part no.                         | Type           |        |                |
|  | 4                | 2.5            | 188054                         | ADVC-4-2,5-A-P | -                                |                |        |                |
|  |                  | 5              | 188055                         | ADVC-4-5-A-P   |                                  |                |        |                |
|  | 6                | 5              | 188066                         | ADVC-6-5-A-P   |                                  |                |        |                |
|  |                  | 10             | 188067                         | ADVC-6-10-A-P  |                                  |                |        |                |
|  | 10               | 5              | 188078                         | ADVC-10-5-A-P  |                                  |                |        |                |
|  |                  | 10             | 188079                         | ADVC-10-10-A-P |                                  |                |        |                |
|  | 12               | 5              | 188094                         | ADVC-12-5-A-P  |                                  |                | 188090 | ADVC-12-5-I-P  |
|  |                  | 10             | 188095                         | ADVC-12-10-A-P |                                  |                | 188091 | ADVC-12-10-I-P |
|  | 16               | 5              | 188123                         | ADVC-16-5-A-P  |                                  |                | 188113 | ADVC-16-5-I-P  |
|  |                  | 10             | 188124                         | ADVC-16-10-A-P |                                  |                | 188114 | ADVC-16-10-I-P |
|  |                  | 15             | 188125                         | ADVC-16-15-A-P | 188115                           | ADVC-16-15-I-P |        |                |
|  |                  | 20             | 188126                         | ADVC-16-20-A-P | 188116                           | ADVC-16-20-I-P |        |                |
|  |                  | 25             | 188127                         | ADVC-16-25-A-P | 188117                           | ADVC-16-25-I-P |        |                |
|  | 20               | 5              | 188155                         | ADVC-20-5-A-P  | 188145                           | ADVC-20-5-I-P  |        |                |
|  |                  | 10             | 188156                         | ADVC-20-10-A-P | 188146                           | ADVC-20-10-I-P |        |                |
|  |                  | 15             | 188157                         | ADVC-20-15-A-P | 188147                           | ADVC-20-15-I-P |        |                |
|  |                  | 20             | 188158                         | ADVC-20-20-A-P | 188148                           | ADVC-20-20-I-P |        |                |
|  |                  | 25             | 188159                         | ADVC-20-25-A-P | 188149                           | ADVC-20-25-I-P |        |                |
|  | 25               | 5              | 188187                         | ADVC-25-5-A-P  | 188177                           | ADVC-25-5-I-P  |        |                |
|  |                  | 10             | 188188                         | ADVC-25-10-A-P | 188178                           | ADVC-25-10-I-P |        |                |
| 15   |                  | 188189         | ADVC-25-15-A-P                 | 188179         | ADVC-25-15-I-P                   |                |        |                |
| 20   |                  | 188190         | ADVC-25-20-A-P                 | 188180         | ADVC-25-20-I-P                   |                |        |                |
| 25   |                  | 188191         | ADVC-25-25-A-P                 | 188181         | ADVC-25-25-I-P                   |                |        |                |

## Data sheet – Double-acting, without position sensing

| Ordering data   |                              |                |                                |                |                                  |                |
|---|------------------------------|----------------|--------------------------------|----------------|----------------------------------|----------------|
| Type  | Piston $\varnothing$<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                | Piston rod<br>with female thread |                |
|   |                              |                | Part no.                       | Type           | Part no.                         | Type           |
|  | 32                           | 5              | 188219                         | ADVC-32-5-A-P  | 188209                           | ADVC-32-5-I-P  |
|   |                              | 10             | 188220                         | ADVC-32-10-A-P | 188210                           | ADVC-32-10-I-P |
|   |                              | 15             | 188221                         | ADVC-32-15-A-P | 188211                           | ADVC-32-15-I-P |
|   |                              | 20             | 188222                         | ADVC-32-20-A-P | 188212                           | ADVC-32-20-I-P |
|   |                              | 25             | 188223                         | ADVC-32-25-A-P | 188213                           | ADVC-32-25-I-P |
|   | 40                           | 5              | 188247                         | ADVC-40-5-A-P  | 188237                           | ADVC-40-5-I-P  |
|   |                              | 10             | 188248                         | ADVC-40-10-A-P | 188238                           | ADVC-40-10-I-P |
|   |                              | 15             | 188249                         | ADVC-40-15-A-P | 188239                           | ADVC-40-15-I-P |
|   |                              | 20             | 188250                         | ADVC-40-20-A-P | 188240                           | ADVC-40-20-I-P |
|   |                              | 25             | 188251                         | ADVC-40-25-A-P | 188241                           | ADVC-40-25-I-P |
|   | 50                           | 10             | 188272                         | ADVC-50-10-A-P | 188264                           | ADVC-50-10-I-P |
|   |                              | 15             | 188273                         | ADVC-50-15-A-P | 188265                           | ADVC-50-15-I-P |
|   |                              | 20             | 188274                         | ADVC-50-20-A-P | 188266                           | ADVC-50-20-I-P |
|   |                              | 25             | 188275                         | ADVC-50-25-A-P | 188267                           | ADVC-50-25-I-P |
|   | 63                           | 10             | 188296                         | ADVC-63-10-A-P | 188288                           | ADVC-63-10-I-P |
|   |                              | 15             | 188297                         | ADVC-63-15-A-P | 188289                           | ADVC-63-15-I-P |
|   |                              | 20             | 188298                         | ADVC-63-20-A-P | 188290                           | ADVC-63-20-I-P |
|   |                              | 25             | 188299                         | ADVC-63-25-A-P | 188291                           | ADVC-63-25-I-P |
|   | 80                           | 10             | 188320                         | ADVC-80-10-A-P | 188312                           | ADVC-80-10-I-P |
|   |                              | 15             | 188321                         | ADVC-80-15-A-P | 188313                           | ADVC-80-15-I-P |
| 20  |                              | 188322         | ADVC-80-20-A-P                 | 188314         | ADVC-80-20-I-P                   |                |
| 25  |                              | 188323         | ADVC-80-25-A-P                 | 188315         | ADVC-80-25-I-P                   |                |
| 100   | 10                           | 188344         | ADVC-100-10-A-P                | 188336         | ADVC-100-10-I-P                  |                |
|   | 15                           | 188345         | ADVC-100-15-A-P                | 188337         | ADVC-100-15-I-P                  |                |
|   | 20                           | 188346         | ADVC-100-20-A-P                | 188338         | ADVC-100-20-I-P                  |                |
|   | 25                           | 188347         | ADVC-100-25-A-P                | 188339         | ADVC-100-25-I-P                  |                |

Data sheet – Double-acting, with position sensing



- $\varnothing$  - Diameter  
6 ... 100 mm
- | - Stroke length  
5 ... 25 mm

| General technical data             |  |    |    |    |    |    |                  |      |      |      |      |      |
|------------------------------------|--|----|----|----|----|----|------------------|------|------|------|------|------|
| Piston $\varnothing$               | 6  | 10 | 12 | 16 | 20 | 25 | 32               | 40   | 50   | 63   | 80   | 100  |
| Pneumatic connection               | M3   | M5 | M5 | M5 | M5 | M5 | G1/8             | G1/8 | G1/8 | G1/8 | G1/8 | G1/4 |
| Piston rod with female thread      | -  | -  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod with male thread        | ■  | ■  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod without thread          | ■  | ■  | ■  | -  | -  | -  | -                | -    | -    | -    | -    | -    |
| 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) |    |    |    |    |    |                  |      |      |      |      |      |
| Design                             | Piston   |    |    |    |    |    |                  |      |      |      |      |      |
|                                    | Piston rod   |    |    |    |    |    |                  |      |      |      |      |      |
| Cushioning                         | Elastic cushioning rings/pads at both ends   |    |    |    |    |    |                  |      |      |      |      |      |
| Position sensing                   | Via proximity sensor   |    |    |    |    |    |                  |      |      |      |      |      |
| Type of mounting                   | Via through-hole   |    |    |    |    |    | Via through-hole |      |      |      |      |      |
|                                    | -  |    |    |    |    |    | Via accessories  |      |      |      |      |      |
| Mounting position                  | Any  |    |    |    |    |    |                  |      |      |      |      |      |

| Operating conditions                         |                          |  |                 |              |    |    |    |    |    |             |    |              |  |
|--|--------------------------|--|-----------------|--------------|----|----|----|----|----|-------------|----|--------------|--|
| Piston $\varnothing$                         | 6                        | 10   | 12              | 16           | 20 | 25 | 32 | 40 | 50 | 63          | 80 | 100          |  |
| Operating pressure                           | [MPa]                    | 0.15 ...<br>0.8  | 0.1 ...<br>0.8  | 0.1 ... 1    |    |    |    |    |    | 0.06 ... 1  |    | 0.1 ... 1    |  |
|  | [bar]                    | 1.5 ... 8  | 1 ... 8         | 1 ... 10     |    |    |    |    |    | 0.6 ... 10  |    | 1 ... 10     |  |
|  | [psi]                    | 21.75 ...<br>116   | 14.5 ...<br>116 | 14.5 ... 145 |    |    |    |    |    | 8.7 ... 145 |    | 14.5 ... 145 |  |
| Ambient temperature                          | [°C]                     | -20 ... +80 (observe operating range of proximity sensors) |                 |              |    |    |    |    |    |             |    |              |  |
| Corrosion resistance class CRC <sup>1)</sup> | 1 – Low corrosion stress |  |                 |              |    |    |    |    |    |             |    |              |  |

1) More information: [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)



## Data sheet – Double-acting, with position sensing

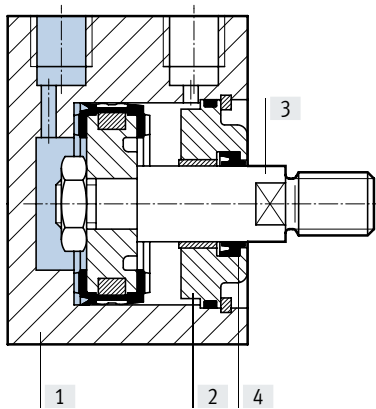
| Forces [N] and impact energy [J]                         |       |      |      |      |      |      |      |      |      |      |      |      |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|
| Piston ø   | 6     | 10   | 12   | 16   | 20   | 25   | 32   | 40   | 50   | 63   | 80   | 100  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing  | 17    | 47   | 68   | 121  | 189  | 295  | 483  | 754  | 1178 | 1870 | 3016 | 4712 |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 13    | 40   | 51   | 91   | 141  | 247  | 415  | 686  | 1056 | 1750 | 2847 | 4418 |
| Max. impact energy in the end positions                  | 0.005 | 0.03 | 0.06 | 0.10 | 0.14 | 0.18 | 0.26 | 0.36 | 0.60 | 0.64 | 0.90 | 1.20 |

| Product weight [g] |          |    |    |     |     |     |     |     |     |     |      |      |
|--------------------|----------|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Stroke [mm]        | Piston ø |    |    |     |     |     |     |     |     |     |      |      |
|                    | 6        | 10 | 12 | 16  | 20  | 25  | 32  | 40  | 50  | 63  | 80   | 100  |
| 5                  | 14       | 29 | 57 | 79  | 120 | 151 | 184 | 298 | –   | –   | –    | –    |
| 10                 | 17       | 35 | 64 | 90  | 134 | 168 | 201 | 323 | 459 | 626 | 1176 | 2200 |
| 15                 | –        | –  | –  | 100 | 148 | 183 | 225 | 344 | 488 | 701 | 1233 | 2325 |
| 20                 | –        | –  | –  | 110 | 160 | 200 | 239 | 370 | 528 | 740 | 1297 | 2290 |
| 25                 | –        | –  | –  | 120 | 178 | 217 | 242 | 377 | 553 | 778 | 1348 | 2366 |

| Moving mass [g] |          |     |     |    |    |    |    |    |     |     |     |     |
|-----------------|----------|-----|-----|----|----|----|----|----|-----|-----|-----|-----|
| Stroke [mm]     | Piston ø |     |     |    |    |    |    |    |     |     |     |     |
|                 | 6        | 10  | 12  | 16 | 20 | 25 | 32 | 40 | 50  | 63  | 80  | 100 |
| 5               | 1.7      | 3.2 | 8.5 | 15 | 26 | 32 | 50 | 66 | –   | –   | –   | –   |
| 10              | 2        | 3.7 | 9.6 | 17 | 29 | 35 | 55 | 71 | 116 | 158 | 289 | 555 |
| 15              | –        | –   | –   | 19 | 32 | 38 | 60 | 76 | 124 | 166 | 301 | 575 |
| 20              | –        | –   | –   | 21 | 35 | 41 | 65 | 81 | 132 | 174 | 313 | 595 |
| 25              | –        | –   | –   | 23 | 38 | 44 | 70 | 86 | 140 | 182 | 325 | 615 |

## Materials

Sectional view



| Short-stroke cylinder |                   |  |
|-----------------------|-------------------|--|
| [1]                   | Cylinder barrel   | Anodised aluminium                                       |
| [2]                   | Cover             | Anodised aluminium                                       |
| [3]                   | Piston rod        | High-alloy steel   |
| [4]                   | Rod seal          | Polyurethane   |
| –                     | Note on materials | RoHS-compliant   |
|                       | PWIS conformity   | VDMA24364-B1/B2-L  |
|                       | PWIS criterion    | Free of paint-wetting impairment substances to FN 942010 |

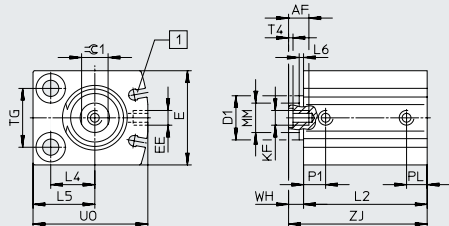
Data sheet – Double-acting, with position sensing

Dimensions

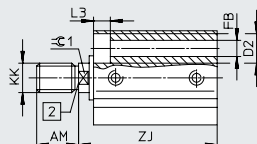
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 6 ... 25 mm

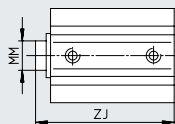
ADVC-...-I-P-A, piston rod with female thread



ADVC-...-A-P-A, piston rod with male thread



ADVC-...-P-A, piston rod without thread



∅ 10 mm

The bearing cap can protrude up to 0.65 mm depending on the tolerance position.

∅ 12 mm

The bearing cap can protrude up to 0.35 mm depending on the tolerance position.

[1] No undercut with diameter 6/10

[2] Slot for proximity sensor SME/SMT-10

| ∅<br>[mm] | Stroke<br>[mm] | AF<br>min. | AM<br>-0.5 | D1<br>∅<br>max. | D2<br>∅  | E<br>max. | EE | FB<br>∅ | KF | KK | L2<br>+0.2 | L3  |
|-----------|----------------|------------|------------|-----------------|----------|-----------|----|---------|----|----|------------|-----|
| 6         | 5              | -          | 6          | -               | 5 +0.1   | 16        | M3 | 2.9     | -  | M3 | 25.5       | 2.9 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 30.5       |     |
| 10        | 5              | -          | 8          | 7.5             | 5.8 +0.1 | 21        | M5 | 3.4     | -  | M4 | 27         | 3.4 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 32         |     |
| 12        | 5              | 8          | 8          | 10.7            | 6 H13    | 24        | M5 | 3.4     | M3 | M5 | 36         | 3.4 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 41         |     |
| 16        | 5              | 10         | 12         | -               | 8 H13    | 28        | M5 | 4.5     | M4 | M6 | 35         | 4.6 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 40         |     |
|           | 15             |            |            |                 |          |           |    |         |    |    | 45         |     |
|           | 20             |            |            |                 |          |           |    |         |    |    | 50         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 55         |     |
| 20        | 5              | 12         | 12         | -               | 10 H13   | 32        | M5 | 5.5     | M5 | M8 | 37         | 5.7 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 42         |     |
|           | 15             |            |            |                 |          |           |    |         |    |    | 47         |     |
|           | 20             |            |            |                 |          |           |    |         |    |    | 52         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 57         |     |
| 25        | 5              | 12         | 12         | -               | 10 H13   | 38        | M5 | 5.5     | M5 | M8 | 37         | 5.7 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 42         |     |
|           | 15             |            |            |                 |          |           |    |         |    |    | 47         |     |
|           | 20             |            |            |                 |          |           |    |         |    |    | 52         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 57         |     |

## Data sheet – Double-acting, with position sensing

| ∅<br>[mm] | Stroke<br>[mm] | L4   | L5   | L6<br>max. | MM<br>∅ | P1  | PL | T4  | TG<br>±0.1 | UO<br>max. | WH  | ZJ<br>±0.8 | ⊕C1 |
|-----------|----------------|------|------|------------|---------|-----|----|-----|------------|------------|-----|------------|-----|
| 6         | 5              | 5    | 8    | –          | 3       | 5.2 | 3  | –   | 10         | 16         | 1   | 26.5       | –   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 31.5       |     |
| 10        | 5              | 7    | 10.5 | 0.7        | 4       | 6   | 6  | –   | 14         | 22         | 1.5 | 28.5       | –   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 33.5       |     |
| 12        | 5              | 8    | 12   | 0.4        | 6       | 7   | 6  | 1.5 | 16         | 26         | 4   | 40         | 5   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 45         |     |
| 16        | 5              | 12   | 17   | –          | 8       | 8   | 6  | 2   | 18         | 32         | 4   | 39         | 7   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 44         |     |
|           | 15             |      |      |            |         |     |    |     |            |            |     | 49         |     |
|           | 20             |      |      |            |         |     |    |     |            |            |     | 54         |     |
|           | 25             |      |      |            |         |     |    |     |            |            |     | 59         |     |
| 20        | 5              | 15   | 21   | –          | 10      | 7.5 | 7  | 2   | 20         | 39         | 5   | 42         | 9   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 47         |     |
|           | 15             |      |      |            |         |     |    |     |            |            |     | 52         |     |
|           | 20             |      |      |            |         |     |    |     |            |            |     | 57         |     |
|           | 25             |      |      |            |         |     |    |     |            |            |     | 62         |     |
| 25        | 5              | 15.5 | 21.5 | –          | 10      | 10  | 6  | 2   | 26         | 42         | 5   | 42         | 9   |
|           | 10             |      |      |            |         |     |    |     |            |            |     | 47         |     |
|           | 15             |      |      |            |         |     |    |     |            |            |     | 52         |     |
|           | 20             |      |      |            |         |     |    |     |            |            |     | 57         |     |
|           | 25             |      |      |            |         |     |    |     |            |            |     | 62         |     |

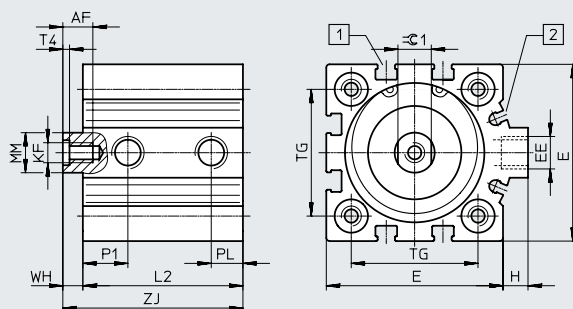
Data sheet – Double-acting, with position sensing

Dimensions

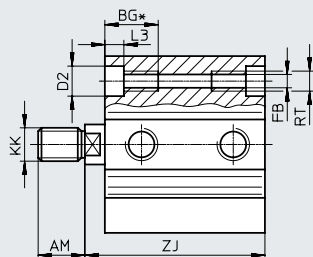
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 32 ... 100 mm

ADVC-...-I-P-A, piston rod with female thread



ADVC-...-A-P-A\*\*, piston rod with male thread



- [1] Slot for proximity sensor SME/SMT-8
- [2] Slot for proximity sensor SME/SMT-10


| ∅    | AF   | AM   | BG*  | D2      | E    | EE   | FB  | H   | KF  | KK       |
|------|------|------|------|---------|------|------|-----|-----|-----|----------|
| [mm] | min. | -0.5 | min. | ∅<br>F9 | max. |      | ∅   |     |     |          |
| 32   | 12   | 14   | 21.7 | 9       | 45   | G1/8 | 5.2 | 7   | M6  | M10x1.25 |
| 40   | 12   | 14   | 21.7 | 9       | 53.5 | G1/8 | 5.2 | 7   | M6  | M10x1.25 |
| 50   | 16   | 16   | 22.8 | 11      | 63.5 | G1/8 | 6.8 | 7   | M8  | M12x1.25 |
| 63   | 16   | 16   | 22.8 | 11      | 75   | G1/8 | 6.8 | 7.5 | M8  | M12x1.25 |
| 80   | 20   | 22   | 25   | 14      | 93   | G1/8 | 8.5 | 7   | M10 | M16x1.5  |
| 100  | 24   | 28   | 25   | 14      | 113  | G1/4 | 8.5 | 13  | M12 | M20x1.5  |


\* Continuous thread with shorter sizes  
 \*\* Nut for piston rod thread included in the scope of delivery

## Data sheet – Double-acting, with position sensing

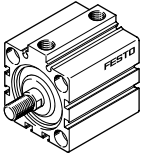
| ∅<br>[mm] | Stroke<br>[mm] | L2<br>+0.2 | L3  | MM<br>∅ | P1   | PL   | RT  | T4  | TG<br>±0.1 | WH | ZJ<br>±0.8 | ⊖1 |
|-----------|----------------|------------|-----|---------|------|------|-----|-----|------------|----|------------|----|
| 32        | 5              | 38         | 5.7 | 12      | 9    | 8.5  | M6  | 2.6 | 32.5       | 6  | 44         | 10 |
|           | 10             | 43         |     |         |      |      |     |     |            |    | 49         |    |
|           | 15             | 48         |     |         |      |      |     |     |            |    | 54         |    |
|           | 20             | 53         |     |         |      |      |     |     |            |    | 59         |    |
|           | 25             | 58         |     |         |      |      |     |     |            |    | 64         |    |
| 40        | 5              | 43         | 5.7 | 12      | 13.5 | 9.5  | M6  | 2.6 | 38         | 6  | 49         | 10 |
|           | 10             | 48         |     |         |      |      |     |     |            |    | 54         |    |
|           | 15             | 53         |     |         |      |      |     |     |            |    | 59         |    |
|           | 20             | 58         |     |         |      |      |     |     |            |    | 64         |    |
|           | 25             | 63         |     |         |      |      |     |     |            |    | 69         |    |
| 50        | 10             | 48         | 6.8 | 16      | 11.3 | 9.5  | M8  | 3.3 | 46.5       | 8  | 56         | 13 |
|           | 15             | 53         |     |         |      |      |     |     |            |    | 61         |    |
|           | 20             | 58         |     |         |      |      |     |     |            |    | 66         |    |
|           | 25             | 63         |     |         |      |      |     |     |            |    | 71         |    |
| 63        | 10             | 51         | 6.8 | 16      | 12.5 | 10.5 | M8  | 3.3 | 56.5       | 8  | 59         | 13 |
|           | 15             | 56         |     |         |      |      |     |     |            |    | 64         |    |
|           | 20             | 61         |     |         |      |      |     |     |            |    | 69         |    |
|           | 25             | 66         |     |         |      |      |     |     |            |    | 74         |    |
| 80        | 10             | 59         | 9   | 20      | 15   | 8.5  | M10 | 4.7 | 72         | 8  | 67         | 17 |
|           | 15             | 64         |     |         |      |      |     |     |            |    | 72         |    |
|           | 20             | 69         |     |         |      |      |     |     |            |    | 77         |    |
|           | 25             | 74         |     |         |      |      |     |     |            |    | 82         |    |
| 100       | 10             | 68         | 9   | 25      | 16.5 | 10.5 | M10 | 6.1 | 89         | 10 | 78         | 22 |
|           | 15             | 73         |     |         |      |      |     |     |            |    | 83         |    |
|           | 20             | 78         |     |         |      |      |     |     |            |    | 88         |    |
|           | 25             | 83         |     |         |      |      |     |     |            |    | 93         |    |

Data sheet – Double-acting, with position sensing

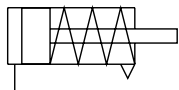
| Ordering data  |                  |                |                              |                |
|--|------------------|----------------|------------------------------|----------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>without thread |                |
|  |                  |                | Part no.                     | Type           |
|  | 6                | 5              | 526901                       | ADVC-6-5-P-A   |
|  |                  | 10             | 526902                       | ADVC-6-10-P-A  |
|  | 10               | 5              | 526905                       | ADVC-10-5-P-A  |
|  |                  | 10             | 526906                       | ADVC-10-10-P-A |
|  | 12               | 5              | 530572                       | ADVC-12-5-P-A  |
|  |                  | 10             | 530573                       | ADVC-12-10-P-A |

| Ordering data  |                  |                |                                |                  |                                  |                  |        |                  |
|--|------------------|----------------|--------------------------------|------------------|----------------------------------|------------------|--------|------------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                  | Piston rod<br>with female thread |                  |        |                  |
|  |                  |                | Part no.                       | Type             | Part no.                         | Type             |        |                  |
|  | 6                | 5              | 188064                         | ADVC-6-5-A-P-A   | -                                |                  |        |                  |
|  |                  | 10             | 188065                         | ADVC-6-10-A-P-A  |                                  |                  |        |                  |
|  | 10               | 5              | 188076                         | ADVC-10-5-A-P-A  |                                  |                  |        |                  |
|  |                  | 10             | 188077                         | ADVC-10-10-A-P-A |                                  |                  |        |                  |
|  | 12               | 5              | 188092                         | ADVC-12-5-A-P-A  |                                  |                  | 188088 | ADVC-12-5-I-P-A  |
|  |                  | 10             | 188093                         | ADVC-12-10-A-P-A |                                  |                  | 188089 | ADVC-12-10-I-P-A |
|  | 16               | 5              | 188118                         | ADVC-16-5-A-P-A  | 188108                           | ADVC-16-5-I-P-A  |        |                  |
|  |                  | 10             | 188119                         | ADVC-16-10-A-P-A | 188109                           | ADVC-16-10-I-P-A |        |                  |
|  |                  | 15             | 188120                         | ADVC-16-15-A-P-A | 188110                           | ADVC-16-15-I-P-A |        |                  |
|  |                  | 20             | 188121                         | ADVC-16-20-A-P-A | 188111                           | ADVC-16-20-I-P-A |        |                  |
|  |                  | 25             | 188122                         | ADVC-16-25-A-P-A | 188112                           | ADVC-16-25-I-P-A |        |                  |
|  | 20               | 5              | 188150                         | ADVC-20-5-A-P-A  | 188140                           | ADVC-20-5-I-P-A  |        |                  |
|  |                  | 10             | 188151                         | ADVC-20-10-A-P-A | 188141                           | ADVC-20-10-I-P-A |        |                  |
|  |                  | 15             | 188152                         | ADVC-20-15-A-P-A | 188142                           | ADVC-20-15-I-P-A |        |                  |
|  |                  | 20             | 188153                         | ADVC-20-20-A-P-A | 188143                           | ADVC-20-20-I-P-A |        |                  |
|  |                  | 25             | 188154                         | ADVC-20-25-A-P-A | 188144                           | ADVC-20-25-I-P-A |        |                  |
|  | 25               | 5              | 188182                         | ADVC-25-5-A-P-A  | 188172                           | ADVC-25-5-I-P-A  |        |                  |
|  |                  | 10             | 188183                         | ADVC-25-10-A-P-A | 188173                           | ADVC-25-10-I-P-A |        |                  |
| 15   |                  | 188184         | ADVC-25-15-A-P-A               | 188174           | ADVC-25-15-I-P-A                 |                  |        |                  |
| 20   |                  | 188185         | ADVC-25-20-A-P-A               | 188175           | ADVC-25-20-I-P-A                 |                  |        |                  |
| 25   |                  | 188186         | ADVC-25-25-A-P-A               | 188176           | ADVC-25-25-I-P-A                 |                  |        |                  |

## Data sheet – Double-acting, with position sensing

| Ordering data<br>Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                  | Piston rod<br>with female thread |                  |
|---|------------------|----------------|--------------------------------|------------------|----------------------------------|------------------|
|   |                  |                | Part no.                       | Type             | Part no.                         | Type             |
|  | 32               | 5              | 188214                         | ADVC-32-5-A-P-A  | 188204                           | ADVC-32-5-I-P-A  |
|   |                  | 10             | 188215                         | ADVC-32-10-A-P-A | 188205                           | ADVC-32-10-I-P-A |
|   |                  | 15             | 188216                         | ADVC-32-15-A-P-A | 188206                           | ADVC-32-15-I-P-A |
|   |                  | 20             | 188217                         | ADVC-32-20-A-P-A | 188207                           | ADVC-32-20-I-P-A |
|   |                  | 25             | 188218                         | ADVC-32-25-A-P-A | 188208                           | ADVC-32-25-I-P-A |
|   | 40               | 5              | 188242                         | ADVC-40-5-A-P-A  | 188232                           | ADVC-40-5-I-P-A  |
|   |                  | 10             | 188243                         | ADVC-40-10-A-P-A | 188233                           | ADVC-40-10-I-P-A |
|   |                  | 15             | 188244                         | ADVC-40-15-A-P-A | 188234                           | ADVC-40-15-I-P-A |
|   |                  | 20             | 188245                         | ADVC-40-20-A-P-A | 188235                           | ADVC-40-20-I-P-A |
|   |                  | 25             | 188246                         | ADVC-40-25-A-P-A | 188236                           | ADVC-40-25-I-P-A |
|   | 50               | 10             | 188268                         | ADVC-50-10-A-P-A | 188260                           | ADVC-50-10-I-P-A |
|   |                  | 15             | 188269                         | ADVC-50-15-A-P-A | 188261                           | ADVC-50-15-I-P-A |
|   |                  | 20             | 188270                         | ADVC-50-20-A-P-A | 188262                           | ADVC-50-20-I-P-A |
|   |                  | 25             | 188271                         | ADVC-50-25-A-P-A | 188263                           | ADVC-50-25-I-P-A |
|   | 63               | 10             | 188292                         | ADVC-63-10-A-P-A | 188284                           | ADVC-63-10-I-P-A |
|   |                  | 15             | 188293                         | ADVC-63-15-A-P-A | 188285                           | ADVC-63-15-I-P-A |
|   |                  | 20             | 188294                         | ADVC-63-20-A-P-A | 188286                           | ADVC-63-20-I-P-A |
|   |                  | 25             | 188295                         | ADVC-63-25-A-P-A | 188287                           | ADVC-63-25-I-P-A |
|   | 80               | 10             | 188316                         | ADVC-80-10-A-P-A | 188308                           | ADVC-80-10-I-P-A |
|   |                  | 15             | 188317                         | ADVC-80-15-A-P-A | 188309                           | ADVC-80-15-I-P-A |
| 20  |                  | 188318         | ADVC-80-20-A-P-A               | 188310           | ADVC-80-20-I-P-A                 |                  |
| 25  |                  | 188319         | ADVC-80-25-A-P-A               | 188311           | ADVC-80-25-I-P-A                 |                  |
| 100   | 10               | 188340         | ADVC-100-10-A-P-A              | 188332           | ADVC-100-10-I-P-A                |                  |
|   | 15               | 188341         | ADVC-100-15-A-P-A              | 188333           | ADVC-100-15-I-P-A                |                  |
|   | 20               | 188342         | ADVC-100-20-A-P-A              | 188334           | ADVC-100-20-I-P-A                |                  |
|   | 25               | 188343         | ADVC-100-25-A-P-A              | 188335           | ADVC-100-25-I-P-A                |                  |

Data sheet – Single-acting, without position sensing



- $\varnothing$  - Diameter  
4 ... 100 mm
- | - Stroke length  
2.5 ... 25 mm

| General technical data             |  |    |    |    |    |    |    |                  |      |      |      |      |      |
|------------------------------------|--|----|----|----|----|----|----|------------------|------|------|------|------|------|
| Piston $\varnothing$               | 4  | 6  | 10 | 12 | 16 | 20 | 25 | 32               | 40   | 50   | 63   | 80   | 100  |
| Pneumatic connection               | M3   | M3 | M5 | M5 | M5 | M5 | M5 | G1/8             | G1/8 | G1/8 | G1/8 | G1/8 | G1/4 |
| Piston rod with female thread      | -  | -  | -  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod with male thread        | ■  | ■  | ■  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod without thread          | ■  | ■  | ■  | ■  | -  | -  | -  | -                | -    | -    | -    | -    | -    |
| 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) |    |    |    |    |    |    |                  |      |      |      |      |      |
| Design                             | Piston   |    |    |    |    |    |    |                  |      |      |      |      |      |
|                                    | Piston rod   |    |    |    |    |    |    |                  |      |      |      |      |      |
| Cushioning                         | Elastic cushioning rings/pads at both ends   |    |    |    |    |    |    |                  |      |      |      |      |      |
| Type of mounting                   | Via through-hole   |    |    |    |    |    |    | Via through-hole |      |      |      |      |      |
|                                    | -  |    |    |    |    |    |    | Via accessories  |      |      |      |      |      |
| Mounting position                  | Any  |    |    |    |    |    |    |                  |      |      |      |      |      |

| Operating conditions                         |                          |               |    |               |    |               |    |              |    |    |    |    |     |
|--|--------------------------|---------------|----|---------------|----|---------------|----|--------------|----|----|----|----|-----|
| Piston $\varnothing$                         | 4                        | 6             | 10 | 12            | 16 | 20            | 25 | 32           | 40 | 50 | 63 | 80 | 100 |
| Operating pressure                           | [MPa]                    | 0.25 ... 0.8  |    | 0.15 ... 0.8  |    | 0.15 ... 1    |    | 0.1 ... 1    |    |    |    |    |     |
|  | [bar]                    | 2.5 ... 8     |    | 1.5 ... 8     |    | 1.5 ... 10    |    | 1 ... 10     |    |    |    |    |     |
|  | [psi]                    | 36.25 ... 116 |    | 21.75 ... 116 |    | 21.75 ... 145 |    | 14.5 ... 145 |    |    |    |    |     |
| Ambient temperature                          | [°C]                     | -20 ... +80   |    |               |    |               |    |              |    |    |    |    |     |
| Corrosion resistance class CRC <sup>1)</sup> | 1 – Low corrosion stress |               |    |               |    |               |    |              |    |    |    |    |     |


1) More information: [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)



## Data sheet – Single-acting, without position sensing

| Forces [N] and impact energy [J]                         |       |       |      |      |      |                  |      |      |      |      |      |      |      |
|--|-------|-------|------|------|------|------------------|------|------|------|------|------|------|------|
| Piston $\varnothing$                                     | 4     | 6     | 10   | 12   | 16   | 20               | 25   | 32   | 40   | 50   | 63   | 80   | 100  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing  | 5     | 11    | 41   | 59   | 105  | 170              | 270  | 450  | 700  | 1120 | 1800 | 2900 | 4500 |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 1     | 3     | 3    | 4    | 5    | 10 <sup>1)</sup> | 15   | 22   | 28   | 40   | 50   | 85   | 140  |
| Max. impact energy in the end positions                  | 0.003 | 0.005 | 0.03 | 0.06 | 0.10 | 0.14             | 0.18 | 0.26 | 0.36 | 0.60 | 0.64 | 0.90 | 1.20 |

1) AEVC-20-5... = 5 N

 **Note**

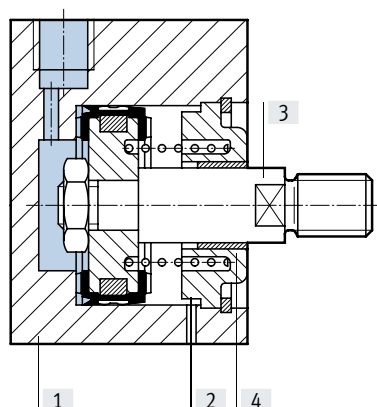
The degree of friction depends on the mounting position and the type of load involved. Single-acting cylinders should as far as possible be operated without lateral forces.

| Product weight [g] |                      |     |    |    |    |     |     |     |     |     |     |      |      |
|--------------------|----------------------|-----|----|----|----|-----|-----|-----|-----|-----|-----|------|------|
| Stroke [mm]        | Piston $\varnothing$ |     |    |    |    |     |     |     |     |     |     |      |      |
|                    | 4                    | 6   | 10 | 12 | 16 | 20  | 25  | 32  | 40  | 50  | 63  | 80   | 100  |
| 2.5                | 3                    | –   | –  | –  | –  | –   | –   | –   | –   | –   | –   | –    | –    |
| 5                  | 4.3                  | 7.6 | 16 | 21 | 37 | 57  | 94  | 117 | –   | –   | –   | –    | –    |
| 10                 | –                    | 11  | 21 | 34 | 49 | 87  | 110 | 169 | 234 | 306 | 460 | 1150 | 2050 |
| 25                 | –                    | –   | –  | –  | 81 | 132 | 167 | 224 | 337 | 466 | 667 | 1354 | 2405 |

| Moving mass [g] |                      |     |     |     |    |    |    |    |    |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|
| Stroke [mm]     | Piston $\varnothing$ |     |     |     |    |    |    |    |    |     |     |     |     |
|                 | 4                    | 6   | 10  | 12  | 16 | 20 | 25 | 32 | 40 | 50  | 63  | 80  | 100 |
| 2.5             | 0.15                 | –   | –   | –   | –  | –  | –  | –  | –  | –   | –   | –   | –   |
| 5               | 0.2                  | 1   | 2   | 4.4 | 8  | 14 | 22 | 40 | –  | –   | –   | –   | –   |
| 10              | –                    | 1.4 | 2.6 | 6.9 | 11 | 21 | 25 | 48 | 65 | 105 | 157 | 327 | 678 |
| 25              | –                    | –   | –   | –   | 19 | 32 | 37 | 62 | 83 | 140 | 191 | 365 | 739 |

**Materials**

Sectional view



| Short-stroke cylinder | $\varnothing 4$  | $\varnothing 6 \dots 100$                                |
|-----------------------|--|--|
| [1] Cylinder barrel   | Anodised aluminium                                       | Anodised aluminium                                       |
| [2] Cover             | Anodised aluminium                                       | Anodised aluminium                                       |
| [3] Piston rod        | Anodised aluminium                                       | High-alloy steel   |
| [4] Rod seal          | NBR  | Polyurethane   |
| – Note on materials   | RoHS-compliant   | RoHS-compliant   |
| – PWIS conformity     | VDMA24364-B1/B2-L  | VDMA24364-B1/B2-L  |
| – PWIS criterion      | Free of paint-wetting impairment substances to FN 942010 | Free of paint-wetting impairment substances to FN 942010 |

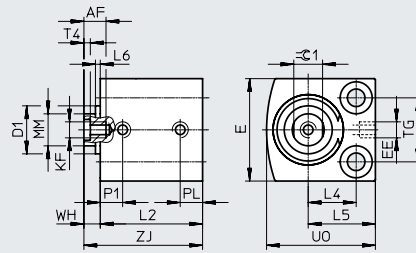
Data sheet – Single-acting, without position sensing

Dimensions

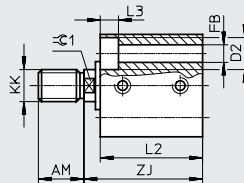
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 4 ... 25 mm

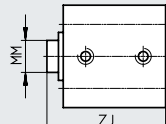
AEVC...-I-P, piston rod with female thread



AEVC...-A-P, piston rod with male thread



AEVC...-P, piston rod without thread



∅ 10 mm

The bearing cap can protrude up to 0.65 mm depending on the tolerance position.

∅ 12 mm

The bearing cap can protrude up to 0.35 mm depending on the tolerance position.

[1] No undercut with diameter 4/6/10

## Data sheet – Single-acting, without position sensing

| ∅<br>[mm] | Stroke<br>[mm] | AF<br>min. | AM<br>-0.5 | D1<br>∅<br>max. | D2<br>∅             | E<br>max. | EE | FB<br>∅ | KF | KK | L2<br>+0.2 | L3  |
|-----------|----------------|------------|------------|-----------------|---------------------|-----------|----|---------|----|----|------------|-----|
| 4         | 2.5            | -          | 6          | -               | 3.3 <sup>+0.1</sup> | 10        | M3 | 1.8     | -  | M2 | 13         | 1.8 |
|           | 5              |            |            |                 |                     |           |    |         |    |    | 15.5       |     |
| 6         | 5              | -          | 6          | -               | 5 <sup>+0.1</sup>   | 13        | M3 | 2.9     | -  | M3 | 16         | 2.9 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 23.4       |     |
| 10        | 5              | -          | 8          | 7.5             | 5.8 <sup>+0.1</sup> | 18        | M5 | 3.4     | -  | M4 | 16         | 3.4 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 23         |     |
| 12        | 5              | 8          | 8          | 10.7            | 6 <sup>H13</sup>    | 20        | M5 | 3.4     | M3 | M5 | 16         | 3.4 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 27.5       |     |
| 16        | 5              | 10         | 12         | -               | 8 <sup>H13</sup>    | 25        | M5 | 4.5     | M4 | M6 | 20         | 4.6 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 27.5       |     |
|           | 25             |            |            |                 |                     |           |    |         |    |    | 47         |     |
| 20        | 5              | 8          | 12         | -               | 10 <sup>H13</sup>   | 32        | M5 | 5.5     | M5 | M8 | 20         | 5.7 |
|           | 10             | 12         |            |                 |                     |           |    |         |    |    | 30.5       |     |
|           | 25             | 48.5       |            |                 |                     |           |    |         |    |    |            |     |
| 25        | 5              | 12         | 12         | -               | 10 <sup>H13</sup>   | 38        | M5 | 5.5     | M5 | M8 | 26.1       | 5.7 |
|           | 10             |            |            |                 |                     |           |    |         |    |    | 31.1       |     |
|           | 25             |            |            |                 |                     |           |    |         |    |    | 50.2       |     |

| ∅<br>[mm] | Stroke<br>[mm] | L4   | L5   | L6<br>max. | MM<br>∅ | PL  | T4  | TG<br>±0.1 | UO<br>max. | WH | ZJ<br>±0.8 | ≅1 |
|-----------|----------------|------|------|------------|---------|-----|-----|------------|------------|----|------------|----|
| 4         | 2.5            | 4    | 6.5  | -          | 2       | 3.2 | -   | 5.8        | 10         | 1  | 14         | -  |
|           | 5              |      |      |            |         |     |     |            |            |    | 16.5       |    |
| 6         | 5              | 6    | 9    | -          | 3       | 3   | -   | 7          | 14         | 1  | 17         | -  |
|           | 10             |      |      |            |         |     |     |            |            |    | 24.4       |    |
| 10        | 5              | 8    | 11.5 | 0.7        | 4       | 5.5 | -   | 11         | 19         | 1  | 17         | -  |
|           | 10             |      |      |            |         |     |     |            |            |    | 24         |    |
| 12        | 5              | 9    | 13   | 0.4        | 6       | 6   | 1.5 | 13         | 22         | 1  | 17         | -  |
|           | 10             |      |      |            |         |     |     |            |            |    | 28.5       |    |
| 16        | 5              | 11.5 | 16.5 | -          | 8       | 6   | 2   | 15         | 27         | 1  | 21         | 7  |
|           | 10             |      |      |            |         |     |     |            |            |    | 28.5       |    |
|           | 25             |      |      |            |         |     |     |            |            |    | 48         |    |
| 20        | 5              | 15   | 21   | -          | 10      | 7   | 2   | 20         | 34         | 1  | 21         | 9  |
|           | 10             |      |      |            |         |     |     |            |            |    | 31.5       |    |
|           | 25             |      |      |            |         |     |     |            |            |    | 49.5       |    |
| 25        | 5              | 15.5 | 21.5 | -          | 10      | 6.5 | 2   | 26         | 37         | 1  | 27.1       | 9  |
|           | 10             |      |      |            |         |     |     |            |            |    | 32.1       |    |
|           | 25             |      |      |            |         |     |     |            |            |    | 51.2       |    |

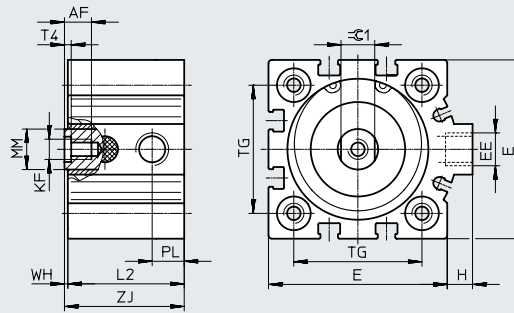
Data sheet – Single-acting, without position sensing

Dimensions

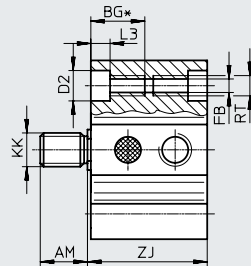
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 32 ... 100 mm

AEVC-...-I-P, piston rod with female thread



AEVC-...-A-P\*\*, piston rod with male thread



## Data sheet – Single-acting, without position sensing


| ∅    | Stroke | AF   | AM   | BG*  | D2<br>∅ | E    | EE   | FB<br>∅ | H   | KF  | KK       |
|------|--------|------|------|------|---------|------|------|---------|-----|-----|----------|
| [mm] | [mm]   | min. | -0.5 | min. | F9      | max. |      |         |     |     |          |
| 32   | 5      | 12   | 14   | 21.7 | 9       | 45   | G1/8 | 5.2     | 7   | M6  | M10x1.25 |
|      | 10     |      |      |      |         |      |      |         |     |     |          |
|      | 25     |      |      |      |         |      |      |         |     |     |          |
| 40   | 10     | 12   | 14   | 21.7 | 9       | 53.5 | G1/8 | 5.2     | 7   | M6  | M10x1.25 |
|      | 25     |      |      |      |         |      |      |         |     |     |          |
| 50   | 10     | 16   | 16   | 22.8 | 11      | 63.5 | G1/8 | 6.8     | 7   | M8  | M12x1.25 |
|      | 25     |      |      |      |         |      |      |         |     |     |          |
| 63   | 10     | 16   | 16   | 22.8 | 11      | 75   | G1/8 | 6.8     | 7.5 | M8  | M12x1.25 |
|      | 25     |      |      |      |         |      |      |         |     |     |          |
| 80   | 10     | 20   | 22   | 25   | 14      | 93   | G1/8 | 8.5     | 7   | M10 | M16x1.5  |
|      | 25     |      |      |      |         |      |      |         |     |     |          |
| 100  | 10     | 24   | 28   | 25   | 14      | 113  | G1/4 | 8.5     | 13  | M12 | M20x1.5  |
|      | 25     |      |      |      |         |      |      |         |     |     |          |


| ∅    | Stroke | L2   | L3  | MM<br>∅ | PL   | RT  | T4  | TG   | WH  | ZJ   | ≅G1 |
|------|--------|------|-----|---------|------|-----|-----|------|-----|------|-----|
| [mm] | [mm]   | +0.2 |     |         |      |     |     | ±0.1 |     | ±0.8 |     |
| 32   | 5      | 26   | 5.7 | 12      | 9.5  | M6  | 2.6 | 32.5 | 1   | 27   | 10  |
|      | 10     | 35   |     |         |      |     |     |      |     | 36   |     |
|      | 25     | 50   |     |         |      |     |     |      |     | 51   |     |
| 40   | 10     | 34.5 | 5.7 | 12      | 9.5  | M6  | 2.6 | 38   | 1   | 35.5 | 10  |
|      | 25     | 54.5 |     |         |      |     |     |      |     | 55.5 |     |
| 50   | 10     | 30.6 | 6.8 | 16      | 9.5  | M8  | 3.3 | 46.5 | 0.5 | 31.1 | 13  |
|      | 25     | 53   |     |         |      |     |     |      |     | 53.5 |     |
| 63   | 10     | 35   | 6.8 | 16      | 11.5 | M8  | 3.3 | 56.5 | 1   | 36   | 13  |
|      | 25     | 57   |     |         |      |     |     |      |     | 58   |     |
| 80   | 10     | 52   | 9   | 20      | 15   | M10 | 4.7 | 72   | 1   | 53   | 17  |
|      | 25     | 67   |     |         |      |     |     |      |     | 68   |     |
| 100  | 10     | 59   | 9   | 25      | 19   | M10 | 6.1 | 89   | 1   | 60   | 22  |
|      | 25     | 74   |     |         |      |     |     |      |     | 75   |     |

\* Continuous thread with shorter sizes

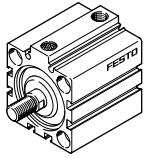
\*\* Nut for piston rod with external thread included in the scope of delivery.

Data sheet – Single-acting, without position sensing

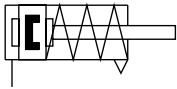
| Ordering data  |                  |                |                              |              |
|--|------------------|----------------|------------------------------|--------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>without thread |              |
|  |                  |                | Part no.                     | Type         |
|  | 4                | 2.5            | 188050                       | AEVC-4-2,5-P |
|  |                  | 5              | 188051                       | AEVC-4-5-P   |
|  | 6                | 5              | 188058                       | AEVC-6-5-P   |
|  |                  | 10             | 188059                       | AEVC-6-10-P  |
|  | 10               | 5              | 188070                       | AEVC-10-5-P  |
|  |                  | 10             | 188071                       | AEVC-10-10-P |
|  | 12               | 5              | 530566                       | AEVC-12-5-P  |
|  |                  | 10             | 530567                       | AEVC-12-10-P |

| Ordering data  |                  |                |                                |                |                                  |      |        |                |
|--|------------------|----------------|--------------------------------|----------------|----------------------------------|------|--------|----------------|
| Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                | Piston rod<br>with female thread |      |        |                |
|  |                  |                | Part no.                       | Type           | Part no.                         | Type |        |                |
|  | 4                | 2.5            | 188052                         | AEVC-4-2,5-A-P | -                                |      |        |                |
|  |                  | 5              | 188053                         | AEVC-4-5-A-P   |                                  |      |        |                |
|  | 6                | 5              | 188062                         | AEVC-6-5-A-P   |                                  |      |        |                |
|  |                  | 10             | 188063                         | AEVC-6-10-A-P  |                                  |      |        |                |
|  | 10               | 5              | 188074                         | AEVC-10-5-A-P  |                                  |      |        |                |
|  |                  | 10             | 188075                         | AEVC-10-10-A-P |                                  |      |        |                |
|  | 12               | 5              | 188086                         | AEVC-12-5-A-P  |                                  |      | 188082 | AEVC-12-5-I-P  |
|  |                  | 10             | 188087                         | AEVC-12-10-A-P |                                  |      | 188083 | AEVC-12-10-I-P |
|  | 16               | 5              | 188105                         | AEVC-16-5-A-P  |                                  |      | 188099 | AEVC-16-5-I-P  |
|  |                  | 10             | 188106                         | AEVC-16-10-A-P |                                  |      | 188100 | AEVC-16-10-I-P |
|  |                  | 25             | 188107                         | AEVC-16-25-A-P |                                  |      | 188101 | AEVC-16-25-I-P |
|  | 20               | 5              | 188137                         | AEVC-20-5-A-P  |                                  |      | 188131 | AEVC-20-5-I-P  |
|  |                  | 10             | 188138                         | AEVC-20-10-A-P |                                  |      | 188132 | AEVC-20-10-I-P |
|  |                  | 25             | 188139                         | AEVC-20-25-A-P |                                  |      | 188133 | AEVC-20-25-I-P |
|  | 25               | 5              | 188169                         | AEVC-25-5-A-P  |                                  |      | 188163 | AEVC-25-5-I-P  |
|  |                  | 10             | 188170                         | AEVC-25-10-A-P |                                  |      | 188164 | AEVC-25-10-I-P |
| 25   |                  | 188171         | AEVC-25-25-A-P                 | 188165         | AEVC-25-25-I-P                   |      |        |                |

## Data sheet – Single-acting, without position sensing

| Ordering data<br>Type   | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                        | Piston rod<br>with female thread |                        |
|---|------------------|----------------|--------------------------------|------------------------|----------------------------------|------------------------|
|   |                  |                | Part no.                       | Type                   | Part no.                         | Type                   |
|  | 32               | 5              | <b>188201</b>                  | <b>AEVC-32-5-A-P</b>   | <b>188195</b>                    | <b>AEVC-32-5-I-P</b>   |
|   |                  | 10             | <b>188202</b>                  | <b>AEVC-32-10-A-P</b>  | <b>188196</b>                    | <b>AEVC-32-10-I-P</b>  |
|   |                  | 25             | <b>188203</b>                  | <b>AEVC-32-25-A-P</b>  | <b>188197</b>                    | <b>AEVC-32-25-I-P</b>  |
|   | 40               | 10             | <b>188230</b>                  | <b>AEVC-40-10-A-P</b>  | <b>188226</b>                    | <b>AEVC-40-10-I-P</b>  |
|   |                  | 25             | <b>188231</b>                  | <b>AEVC-40-25-A-P</b>  | <b>188227</b>                    | <b>AEVC-40-25-I-P</b>  |
|   | 50               | 10             | <b>188258</b>                  | <b>AEVC-50-10-A-P</b>  | <b>188254</b>                    | <b>AEVC-50-10-I-P</b>  |
|   |                  | 25             | <b>188259</b>                  | <b>AEVC-50-25-A-P</b>  | <b>188255</b>                    | <b>AEVC-50-25-I-P</b>  |
|   | 63               | 10             | <b>188282</b>                  | <b>AEVC-63-10-A-P</b>  | <b>188278</b>                    | <b>AEVC-63-10-I-P</b>  |
|   |                  | 25             | <b>188283</b>                  | <b>AEVC-63-25-A-P</b>  | <b>188279</b>                    | <b>AEVC-63-25-I-P</b>  |
|   | 80               | 10             | <b>188306</b>                  | <b>AEVC-80-10-A-P</b>  | <b>188302</b>                    | <b>AEVC-80-10-I-P</b>  |
|   |                  | 25             | <b>188307</b>                  | <b>AEVC-80-25-A-P</b>  | <b>188303</b>                    | <b>AEVC-80-25-I-P</b>  |
|   | 100              | 10             | <b>188330</b>                  | <b>AEVC-100-10-A-P</b> | <b>188326</b>                    | <b>AEVC-100-10-I-P</b> |
|   |                  | 25             | <b>188331</b>                  | <b>AEVC-100-25-A-P</b> | <b>188327</b>                    | <b>AEVC-100-25-I-P</b> |

Data sheet – Single-acting, with position sensing



- $\varnothing$  - Diameter  
6 ... 100 mm
- | - Stroke length  
2.5 ... 25 mm

| General technical data             |  |    |    |    |    |    |                  |      |      |      |      |      |
|------------------------------------|--|----|----|----|----|----|------------------|------|------|------|------|------|
| Piston $\varnothing$               | 6  | 10 | 12 | 16 | 20 | 25 | 32               | 40   | 50   | 63   | 80   | 100  |
| Pneumatic connection               | M3   | M5 | M5 | M5 | M5 | M5 | G1/8             | G1/8 | G1/8 | G1/8 | G1/8 | G1/4 |
| Piston rod with female thread      | –  | –  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod with male thread        | ■  | ■  | ■  | ■  | ■  | ■  | ■                | ■    | ■    | ■    | ■    | ■    |
| Piston rod without thread          | ■  | ■  | ■  | –  | –  | –  | –                | –    | –    | –    | –    | –    |
| 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) |    |    |    |    |    |                  |      |      |      |      |      |
| Design                             | Piston   |    |    |    |    |    |                  |      |      |      |      |      |
|                                    | Piston rod   |    |    |    |    |    |                  |      |      |      |      |      |
| Cushioning                         | Elastic cushioning rings/pads at both ends   |    |    |    |    |    |                  |      |      |      |      |      |
| Position sensing                   | Via proximity sensor   |    |    |    |    |    |                  |      |      |      |      |      |
| Type of mounting                   | Via through-hole   |    |    |    |    |    | Via through-hole |      |      |      |      |      |
|                                    | –  |    |    |    |    |    | Via accessories  |      |      |      |      |      |
| Mounting position                  | Any  |    |    |    |    |    |                  |      |      |      |      |      |

| Operating conditions                         |                          |  |                  |               |    |    |              |    |    |    |    |     |
|--|--------------------------|--|------------------|---------------|----|----|--------------|----|----|----|----|-----|
| Piston $\varnothing$                         | 6                        | 10   | 12               | 16            | 20 | 25 | 32           | 40 | 50 | 63 | 80 | 100 |
| Operating pressure                           | [MPa]                    | 0.25 ...<br>0.8  | 0.15 ...<br>0.8  | 0.15 ... 1    |    |    | 0.1 ... 1    |    |    |    |    |     |
|  | [bar]                    | 2.5 ... 8  | 1.5 ... 8        | 1.5 ... 10    |    |    | 1 ... 10     |    |    |    |    |     |
|  | [psi]                    | 36.25 ...<br>116   | 21.75 ...<br>116 | 21.75 ... 145 |    |    | 14.5 ... 145 |    |    |    |    |     |
| Ambient temperature                          | [°C]                     | –20 ... +80 (observe operating range of proximity sensors) |                  |               |    |    |              |    |    |    |    |     |
| Corrosion resistance class CRC <sup>1)</sup> | 1 – Low corrosion stress |  |                  |               |    |    |              |    |    |    |    |     |


1) More information: [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)



## Data sheet – Single-acting, with position sensing

| Forces [N] and impact energy [J]                         |       |      |      |      |                  |      |      |      |      |      |      |      |
|--|-------|------|------|------|------------------|------|------|------|------|------|------|------|
| Piston $\varnothing$                                     | 6     | 10   | 12   | 16   | 20               | 25   | 32   | 40   | 50   | 63   | 80   | 100  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advancing  | 11    | 41   | 59   | 105  | 170              | 270  | 450  | 700  | 1120 | 1800 | 2900 | 4500 |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 3     | 3    | 4    | 5    | 10 <sup>1)</sup> | 15   | 22   | 28   | 40   | 50   | 85   | 140  |
| Max. impact energy in the end positions                  | 0.005 | 0.03 | 0.06 | 0.10 | 0.14             | 0.18 | 0.26 | 0.36 | 0.60 | 0.64 | 0.90 | 1.20 |

1) AEVC-20-5-... = 5 N


**Note**

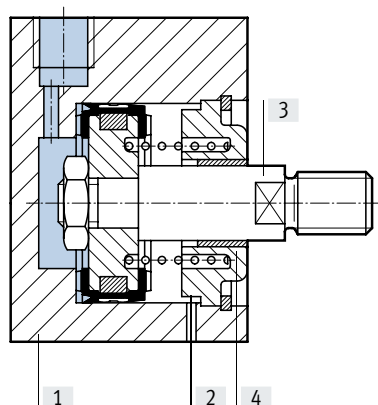
The degree of friction depends on the mounting position and the type of load involved. Single-acting cylinders should as far as possible be operated without lateral forces.

| Product weight [g] |                      |    |    |     |     |     |     |     |     |     |      |      |
|--------------------|----------------------|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Stroke [mm]        | Piston $\varnothing$ |    |    |     |     |     |     |     |     |     |      |      |
|                    | 6                    | 10 | 12 | 16  | 20  | 25  | 32  | 40  | 50  | 63  | 80   | 100  |
| 5                  | 14                   | 31 | 58 | 81  | 120 | 151 | 190 | –   | –   | –   | –    | –    |
| 10                 | 18                   | 35 | 64 | 89  | 136 | 168 | 205 | 316 | 475 | 660 | 1210 | 2244 |
| 25                 | –                    | –  | –  | 131 | 189 | 235 | 260 | 383 | 580 | 780 | 1367 | 2372 |

| Moving mass [g] |                      |     |     |    |    |    |    |    |     |     |     |     |
|-----------------|----------------------|-----|-----|----|----|----|----|----|-----|-----|-----|-----|
| Stroke [mm]     | Piston $\varnothing$ |     |     |    |    |    |    |    |     |     |     |     |
|                 | 6                    | 10  | 12  | 16 | 20 | 25 | 32 | 40 | 50  | 63  | 80  | 100 |
| 5               | 1.5                  | 3   | 8.5 | 15 | 26 | 32 | 49 | –  | –   | –   | –   | –   |
| 10              | 1.8                  | 3.5 | 9.5 | 17 | 29 | 35 | 54 | 70 | 116 | 155 | 284 | 546 |
| 25              | –                    | –   | –   | 26 | 40 | 47 | 67 | 83 | 140 | 179 | 321 | 604 |

**Materials**

Sectional view



| Short-stroke cylinder |  |
|-----------------------|--|
| [1] Cylinder barrel   | Anodised aluminium                                       |
| [2] Cover             | Anodised aluminium                                       |
| [3] Piston rod        | High-alloy steel   |
| [4] Rod seal          | Polyurethane   |
| – Note on materials   | RoHS-compliant   |
| – PWIS conformity     | VDMA24364-B1/B2-L  |
| – PWIS criterion      | Free of paint-wetting impairment substances to FN 942010 |

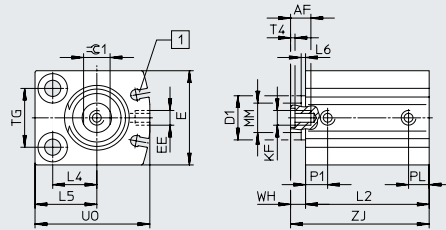
Data sheet – Single-acting, with position sensing

**Dimensions**

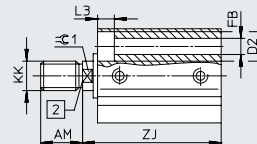
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 6 ... 25 mm

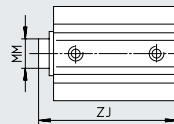
AEVC-...-I-P-A, piston rod with female thread



AEVC-...-A-P-A, piston rod with male thread



AEVC-...-P-A, piston rod without thread



∅ 10 mm

The bearing cap can protrude up to 0.65 mm depending on the tolerance position.

∅ 12 mm

The bearing cap can protrude up to 0.35 mm depending on the tolerance position.

[1] No undercut with diameter 6/10

[2] Slot for proximity sensor SME/SMT-10

## Data sheet – Single-acting, with position sensing

| ∅<br>[mm] | Stroke<br>[mm] | AF<br>min. | AM<br>-0.5 | D1<br>∅<br>max. | D2<br>∅  | E<br>max. | EE | FB<br>∅ | KF | KK | L2<br>+0.2 | L3  |
|-----------|----------------|------------|------------|-----------------|----------|-----------|----|---------|----|----|------------|-----|
| 6         | 5              | -          | 6          | -               | 5 +0.1   | 16        | M3 | 2.9     | -  | M3 | 25.5       | 2.9 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 30.5       |     |
| 10        | 5              | -          | 8          | 7.5             | 5.8 +0.1 | 21        | M5 | 3.4     | -  | M4 | 27         | 3.4 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 32         |     |
| 12        | 5              | 8          | 8          | 10.7            | 6 H13    | 24        | M5 | 3.4     | M3 | M5 | 36         | 3.4 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 41         |     |
| 16        | 5              | 10         | 12         | -               | 8 H13    | 28        | M5 | 4.5     | M4 | M6 | 35         | 4.6 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 40         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 59.5       |     |
| 20        | 5              | 12         | 12         | -               | 10 H13   | 32        | M5 | 5.5     | M5 | M8 | 37         | 5.7 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 42         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 60         |     |
| 25        | 5              | 12         | 12         | -               | 10 H13   | 38        | M5 | 5.5     | M5 | M8 | 37         | 5.7 |
|           | 10             |            |            |                 |          |           |    |         |    |    | 42         |     |
|           | 25             |            |            |                 |          |           |    |         |    |    | 61.1       |     |

| ∅<br>[mm] | Stroke<br>[mm] | L4   | L5   | L6<br>max. | MM<br>∅ | PL | T4  | TG<br>±0.1 | UO<br>max. | WH  | ZJ<br>±0.8 | ≅1 |
|-----------|----------------|------|------|------------|---------|----|-----|------------|------------|-----|------------|----|
| 6         | 5              | 5    | 8    | -          | 3       | 3  | -   | 10         | 16         | 1   | 26.5       | -  |
|           | 10             |      |      |            |         |    |     |            |            |     | 31.5       |    |
| 10        | 5              | 7    | 10.5 | 0.7        | 4       | 6  | -   | 14         | 22         | 1.5 | 28.5       | -  |
|           | 10             |      |      |            |         |    |     |            |            |     | 33.5       |    |
| 12        | 5              | 8    | 12   | 0.4        | 6       | 6  | 1.5 | 16         | 26         | 4   | 40         | 5  |
|           | 10             |      |      |            |         |    |     |            |            |     | 45         |    |
| 16        | 5              | 12   | 17   | -          | 8       | 6  | 2   | 18         | 32         | 4   | 39         | 7  |
|           | 10             |      |      |            |         |    |     |            |            |     | 44         |    |
|           | 25             |      |      |            |         |    |     |            |            |     | 63.5       |    |
| 20        | 5              | 15   | 21   | -          | 10      | 7  | 2   | 20         | 39         | 5   | 42         | 9  |
|           | 10             |      |      |            |         |    |     |            |            |     | 47         |    |
|           | 25             |      |      |            |         |    |     |            |            |     | 65         |    |
| 25        | 5              | 15.5 | 21.5 | -          | 10      | 6  | 2   | 26         | 42         | 5   | 42         | 9  |
|           | 10             |      |      |            |         |    |     |            |            |     | 47         |    |
|           | 25             |      |      |            |         |    |     |            |            |     | 66.1       |    |

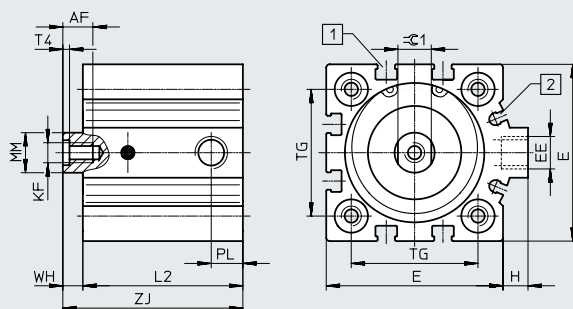
Data sheet – Single-acting, with position sensing

Dimensions

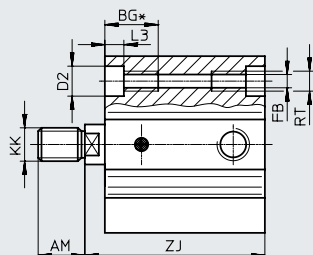
Download CAD data → [www.festo.com](http://www.festo.com)

∅ 32 ... 100 mm

AEVC...-I-P, piston rod with female thread



AEVC...-A-P\*\*, piston rod with male thread




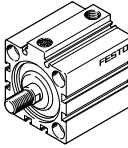
| ∅   | Stroke<br>[mm] | AF<br>min. | AM<br>-0.5 | BG*<br>min. | D2<br>∅<br>F9 | E<br>max. | EE   | FB<br>∅ | H   | KF  | KK       | L2<br>+0.2 | L3  | MM<br>∅ | PL   | RT  | T4  | TG<br>±0.1 | WH | ZJ<br>±0.8 | ⊖G1 |
|-----|----------------|------------|------------|-------------|---------------|-----------|------|---------|-----|-----|----------|------------|-----|---------|------|-----|-----|------------|----|------------|-----|
| 32  | 5              | 12         | 14         | 21.7        | 9             | 45        | G1/8 | 5.2     | 7   | M6  | M10x1.25 | 38         | 5.7 | 12      | 8.5  | M6  | 2.6 | 32.5       | 6  | 44         | 10  |
|     | 43             |            |            |             |               |           |      |         |     |     |          | 49         |     |         |      |     |     |            |    |            |     |
|     | 58             |            |            |             |               |           |      |         |     |     |          | 64         |     |         |      |     |     |            |    |            |     |
| 40  | 10             | 12         | 14         | 21.7        | 9             | 53.5      | G1/8 | 5.2     | 7   | M6  | M10x1.25 | 48         | 5.7 | 12      | 9.5  | M6  | 2.6 | 38         | 6  | 54         | 10  |
|     | 63             |            |            |             |               |           |      |         |     |     |          | 69         |     |         |      |     |     |            |    |            |     |
| 50  | 10             | 16         | 16         | 22.8        | 11            | 63.5      | G1/8 | 6.8     | 7   | M8  | M12x1.25 | 50         | 6.8 | 16      | 9.5  | M8  | 3.3 | 46.5       | 8  | 58         | 13  |
|     | 65             |            |            |             |               |           |      |         |     |     |          | 73         |     |         |      |     |     |            |    |            |     |
| 63  | 10             | 16         | 16         | 22.8        | 11            | 75        | G1/8 | 6.8     | 7.5 | M8  | M12x1.25 | 51         | 6.8 | 16      | 10.5 | M8  | 3.3 | 56.5       | 8  | 59         | 13  |
|     | 66             |            |            |             |               |           |      |         |     |     |          | 74         |     |         |      |     |     |            |    |            |     |
| 80  | 10             | 20         | 22         | 25          | 14            | 93        | G1/8 | 8.5     | 7   | M10 | M16x1.5  | 59         | 9   | 20      | 8.5  | M10 | 4.7 | 72         | 8  | 67         | 17  |
|     | 74             |            |            |             |               |           |      |         |     |     |          | 82         |     |         |      |     |     |            |    |            |     |
| 100 | 10             | 24         | 28         | 25          | 14            | 113       | G1/4 | 8.5     | 13  | M12 | M20x1.5  | 68         | 9   | 25      | 10.5 | M10 | 6.1 | 89         | 10 | 78         | 22  |
|     | 83             |            |            |             |               |           |      |         |     |     |          | 93         |     |         |      |     |     |            |    |            |     |

\* Continuous thread with shorter sizes

\*\* Nut for piston rod with external thread included in the scope of delivery.

## Data sheet – Single-acting, with position sensing

| Ordering data   |                  |                |                                |                  |                                  |                  |                              |                |
|---|------------------|----------------|--------------------------------|------------------|----------------------------------|------------------|------------------------------|----------------|
| Type  | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                  | Piston rod<br>with female thread |                  | Piston rod<br>without thread |                |
|   |                  |                | Part no.                       | Type             | Part no.                         | Type             | Part no.                     | Type           |
|  | 6                | 5              | 188060                         | AEVC-6-5-A-P-A   | –                                |                  | 188056                       | AEVC-6-5-P-A   |
|   |                  | 10             | 188061                         | AEVC-6-10-A-P-A  |                                  |                  | 188057                       | AEVC-6-10-P-A  |
|   | 10               | 5              | 188072                         | AEVC-10-5-A-P-A  | –                                |                  | 188068                       | AEVC-10-5-P-A  |
|   |                  | 10             | 188073                         | AEVC-10-10-A-P-A |                                  |                  | 188069                       | AEVC-10-10-P-A |
|   | 12               | 5              | 188084                         | AEVC-12-5-A-P-A  | 188080                           | AEVC-12-5-I-P-A  | 530570                       | AEVC-12-5-P-A  |
|   |                  | 10             | 188085                         | AEVC-12-10-A-P-A | 188081                           | AEVC-12-10-I-P-A | 530571                       | AEVC-12-10-P-A |
|   | 16               | 5              | 188102                         | AEVC-16-5-A-P-A  | 188096                           | AEVC-16-5-I-P-A  | –                            |                |
|   |                  | 10             | 188103                         | AEVC-16-10-A-P-A | 188097                           | AEVC-16-10-I-P-A |                              |                |
|   |                  | 25             | 188104                         | AEVC-16-25-A-P-A | 188098                           | AEVC-16-25-I-P-A |                              |                |
|   | 20               | 5              | 188134                         | AEVC-20-5-A-P-A  | 188128                           | AEVC-20-5-I-P-A  | –                            |                |
|   |                  | 10             | 188135                         | AEVC-20-10-A-P-A | 188129                           | AEVC-20-10-I-P-A |                              |                |
|   |                  | 25             | 188136                         | AEVC-20-25-A-P-A | 188130                           | AEVC-20-25-I-P-A |                              |                |
|   | 25               | 5              | 188166                         | AEVC-25-5-A-P-A  | 188160                           | AEVC-25-5-I-P-A  | –                            |                |
|   |                  | 10             | 188167                         | AEVC-25-10-A-P-A | 188161                           | AEVC-25-10-I-P-A |                              |                |
|   |                  | 25             | 188168                         | AEVC-25-25-A-P-A | 188162                           | AEVC-25-25-I-P-A |                              |                |

| Ordering data   |                  |                |                                |                   |                                  |                   |  |  |
|---|------------------|----------------|--------------------------------|-------------------|----------------------------------|-------------------|--|--|
| Type  | Piston ø<br>[mm] | Stroke<br>[mm] | Piston rod<br>with male thread |                   | Piston rod<br>with female thread |                   |  |  |
|   |                  |                | Part no.                       | Type              | Part no.                         | Type              |  |  |
|  | 32               | 5              | 188198                         | AEVC-32-5-A-P-A   | 188192                           | AEVC-32-5-I-P-A   |  |  |
|   |                  | 10             | 188199                         | AEVC-32-10-A-P-A  | 188193                           | AEVC-32-10-I-P-A  |  |  |
|   |                  | 25             | 188200                         | AEVC-32-25-A-P-A  | 188194                           | AEVC-32-25-I-P-A  |  |  |
|   | 40               | 10             | 188228                         | AEVC-40-10-A-P-A  | 188224                           | AEVC-40-10-I-P-A  |  |  |
|   |                  | 25             | 188229                         | AEVC-40-25-A-P-A  | 188225                           | AEVC-40-25-I-P-A  |  |  |
|   | 50               | 10             | 188256                         | AEVC-50-10-A-P-A  | 188252                           | AEVC-50-10-I-P-A  |  |  |
|   |                  | 25             | 188257                         | AEVC-50-25-A-P-A  | 188253                           | AEVC-50-25-I-P-A  |  |  |
|   | 63               | 10             | 188280                         | AEVC-63-10-A-P-A  | 188276                           | AEVC-63-10-I-P-A  |  |  |
|   |                  | 25             | 188281                         | AEVC-63-25-A-P-A  | 188277                           | AEVC-63-25-I-P-A  |  |  |
|   | 80               | 10             | 188304                         | AEVC-80-10-A-P-A  | 188300                           | AEVC-80-10-I-P-A  |  |  |
|   |                  | 25             | 188305                         | AEVC-80-25-A-P-A  | 188301                           | AEVC-80-25-I-P-A  |  |  |
|   | 100              | 10             | 188328                         | AEVC-100-10-A-P-A | 188324                           | AEVC-100-10-I-P-A |  |  |
|   |                  | 25             | 188329                         | AEVC-100-25-A-P-A | 188325                           | AEVC-100-25-I-P-A |  |  |

## Accessories

### Multi-position kit DPNC

Material:

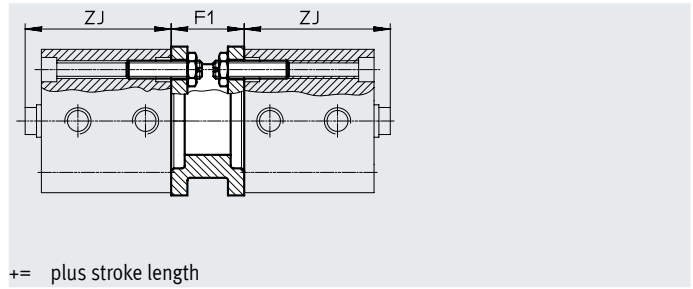
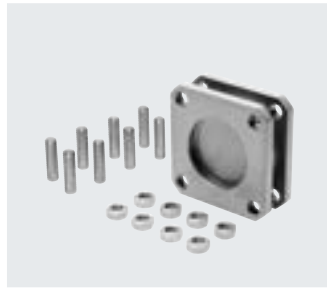
Flange:

Wrought aluminium alloy

Threaded pins, hex nuts: Galvanised

steel

RoHS-compliant



| Dimensions and ordering data |                | F1 | ZJ                       |      |                       |      | Weight [g] | Part no. | Type     |
|------------------------------|----------------|----|--------------------------|------|-----------------------|------|------------|----------|----------|
| For $\varnothing$ [mm]       | Stroke [mm]    |    | Without position sensing |      | With position sensing |      |            |          |          |
|                              |                |    | ADVC                     | AEVC | ADVC                  | AEVC |            |          |          |
| 32                           | 5              | 27 | 35                       | 22   | 39                    | 39   | 292        | 174418   | DPNC-32  |
|                              | 10, 15, 20, 25 |    |                          | 26   |                       |      |            |          |          |
| 40                           | 5, 10          | 27 | 35.5                     | 25.5 | 44                    | 44   | 410        | 174419   | DPNC-40  |
|                              | 15, 20, 25     |    |                          | 30.5 |                       |      |            |          |          |
| 50                           | 10             | 32 | 36                       | 21.1 | 46                    | 48   | 335        | 174420   | DPNC-50  |
|                              | 15, 20, 25     |    |                          | 28.5 |                       |      |            |          |          |
| 63                           | 10             | 28 | 43                       | 26   | 49                    | 49   | 390        | 174421   | DPNC-63  |
|                              | 15, 20, 25     |    |                          | 33   |                       |      |            |          |          |
| 80                           | 10, 15, 20, 25 | 38 | 48                       | 43   | 57                    | 57   | 847        | 174422   | DPNC-80  |
| 100                          | 10, 15, 20, 25 | 38 | 59                       | 50   | 68                    | 68   | 1200       | 174423   | DPNC-100 |

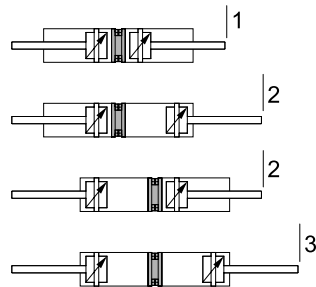
### Connecting two cylinders with identical piston diameters to form a 3- or 4-position cylinder

A 3- or 4-position cylinder consists of two separate cylinders whose piston rods advance in opposing directions. This means that depending on actuation and stroke division, this type of cylinder can assume up to four positions. In each case the cylinder is driven precisely against a stop.

Note that when one end of the piston rod is fixed, the cylinder barrel executes the movement. The line connections to the cylinder must therefore be flexible.

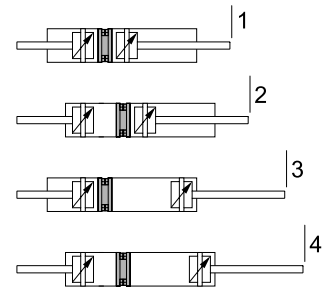
#### To achieve 3 positions

Two cylinders with identical stroke length must be connected together.



#### To achieve 4 positions

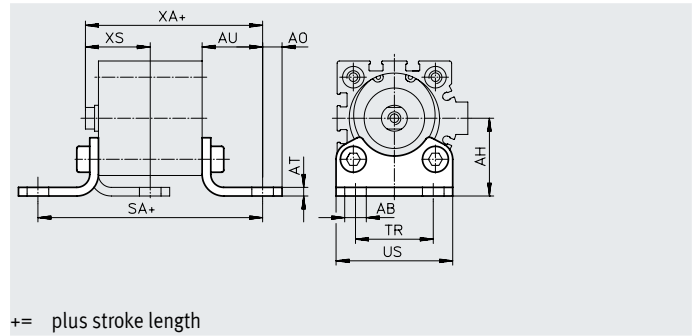
Two cylinders with different stroke lengths must be connected together.



## Accessories

### Foot mounting HNC

Material:  
Galvanised steel



| Dimensions and ordering data |                | AB<br>∅ | AH | AO   | AT | AU | SA                       |      |                       |      | TR | US  |
|------------------------------|----------------|---------|----|------|----|----|--------------------------|------|-----------------------|------|----|-----|
| For ∅<br>[mm]                | Stroke<br>[mm] |         |    |      |    |    | Without position sensing |      | With position sensing |      |    |     |
|                              |                |         |    |      |    |    | ADVC                     | AEVC | ADVC                  | AEVC |    |     |
| 32                           | 5              | 7       | 32 | 6.5  | 4  | 24 | 77                       | 69   | 81                    | 81   | 32 | 45  |
|                              | 10, 15, 20, 25 |         |    |      |    |    |                          | 73   |                       |      |    |     |
| 40                           | 5, 10          | 10      | 36 | 9    | 4  | 28 | 85.5                     | 80.5 | 94                    | 94   | 36 | 54  |
|                              | 15, 20, 25     |         |    |      |    |    |                          | 85.5 |                       |      |    |     |
| 50                           | 10             | 10      | 45 | 9.5  | 5  | 32 | 92                       | 84.6 | 102                   | 104  | 45 | 64  |
|                              | 15, 20, 25     |         |    |      |    |    |                          | 92   |                       |      |    |     |
| 63                           | 10             | 10      | 50 | 12.5 | 5  | 32 | 99                       | 89   | 105                   | 105  | 50 | 75  |
|                              | 15, 20, 25     |         |    |      |    |    |                          | 96   |                       |      |    |     |
| 80                           | 10, 15, 20, 25 | 12      | 63 | 15   | 6  | 41 | 122                      | 124  | 131                   | 131  | 63 | 93  |
| 100                          | 10, 15, 20, 25 | 14.5    | 71 | 17.5 | 6  | 41 | 131                      | 131  | 140                   | 140  | 75 | 110 |

| For ∅<br>[mm] | Stroke<br>[mm] | XA                       |      |                       |      | XS                       |      |                       |      | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type    |
|---------------|----------------|--------------------------|------|-----------------------|------|--------------------------|------|-----------------------|------|-------------------|---------------|----------|---------|
|               |                | Without position sensing |      | With position sensing |      | Without position sensing |      | With position sensing |      |                   |               |          |         |
|               |                | ADVC                     | AEVC | ADVC                  | AEVC | ADVC                     | AEVC | ADVC                  | AEVC |                   |               |          |         |
| 32            | 5              | 59                       | 46   | 63                    | 63   | 26                       | 21   | 26                    | 26   | 2                 | 144           | 174369   | HNC-32  |
|               | 50             |                          |      |                       |      |                          |      |                       |      |                   |               |          |         |
| 40            | 5, 10          | 63.5                     | 53.5 | 72                    | 72   | 30                       | 25   | 30                    | 30   | 2                 | 193           | 174370   | HNC-40  |
|               | 15, 20, 25     |                          | 58.5 |                       |      |                          |      |                       |      |                   |               |          |         |
| 50            | 10             | 68                       | 53.1 | 78                    | 80   | 35                       | 27.5 | 35                    | 35   | 2                 | 353           | 174371   | HNC-50  |
|               | 15, 20, 25     |                          | 60.5 |                       |      |                          |      |                       |      |                   |               |          |         |
| 63            | 10             | 75                       | 58   | 81                    | 81   | 35                       | 28   | 35                    | 35   | 2                 | 436           | 174372   | HNC-63  |
|               | 15, 20, 25     |                          | 65   |                       |      |                          |      |                       |      |                   |               |          |         |
| 80            | 10, 15, 20, 25 | 89                       | 84   | 98                    | 98   | 43                       | 36   | 43                    | 43   | 2                 | 829           | 174373   | HNC-80  |
| 100           | 10, 15, 20, 25 | 100                      | 91   | 109                   | 109  | 45                       | 36   | 45                    | 45   | 2                 | 1009          | 174374   | HNC-100 |

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.

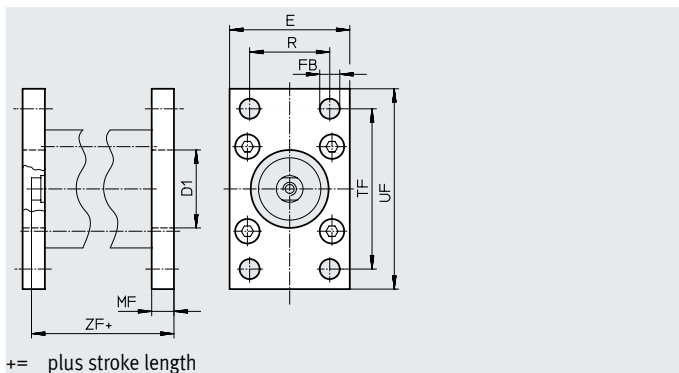
**Note**

Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

### Flange mounting FNC

Material:  
Galvanised steel  
RoHS-compliant



#### Dimensions and ordering data

| For $\varnothing$<br>[mm] | Stroke<br>[mm] | D1<br>$\varnothing$<br>H11 | E   | FB<br>$\varnothing$<br>H13 | MF | R  | TF  | UF  |
|---------------------------|----------------|----------------------------|-----|----------------------------|----|----|-----|-----|
| 32                        | 5              | 30                         | 45  | 7                          | 10 | 32 | 64  | 80  |
|                           | 10, 15, 20, 25 |                            |     |                            |    |    |     |     |
| 40                        | 5, 10          | 35                         | 54  | 9                          | 10 | 36 | 72  | 90  |
|                           | 15, 20, 25     |                            |     |                            |    |    |     |     |
| 50                        | 10             | 40                         | 65  | 9                          | 12 | 45 | 90  | 110 |
|                           | 15, 20, 25     |                            |     |                            |    |    |     |     |
| 63                        | 10             | 45                         | 75  | 9                          | 12 | 50 | 100 | 120 |
|                           | 15, 20, 25     |                            |     |                            |    |    |     |     |
| 80                        | 10, 15, 20, 25 | 45                         | 93  | 12                         | 16 | 63 | 126 | 150 |
| 100                       | 10, 15, 20, 25 | 55                         | 110 | 14                         | 16 | 75 | 150 | 175 |

| For $\varnothing$<br>[mm] | Stroke<br>[mm] | ZF                       |      |                       |      | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type    |
|---------------------------|----------------|--------------------------|------|-----------------------|------|-------------------|---------------|----------|---------|
|                           |                | Without position sensing |      | With position sensing |      |                   |               |          |         |
|                           |                | ADVC                     | AEVC | ADVC                  | AEVC |                   |               |          |         |
| 32                        | 5              | 45                       | 32   | 49                    | 49   | 1                 | 221           | 174376   | FNC-32  |
|                           | 10, 15, 20, 25 |                          | 36   |                       |      |                   |               |          |         |
| 40                        | 5, 10          | 45.5                     | 35.5 | 54                    | 54   | 1                 | 291           | 174377   | FNC-40  |
|                           | 15, 20, 25     |                          | 40.5 |                       |      |                   |               |          |         |
| 50                        | 10             | 48                       | 33.5 | 58                    | 60   | 1                 | 536           | 174378   | FNC-50  |
|                           | 15, 20, 25     |                          | 40.5 |                       |      |                   |               |          |         |
| 63                        | 10             | 55                       | 38   | 61                    | 61   | 1                 | 679           | 174379   | FNC-63  |
|                           | 15, 20, 25     |                          | 45   |                       |      |                   |               |          |         |
| 80                        | 10, 15, 20, 25 | 64                       | 59   | 73                    | 73   | 1                 | 1495          | 174380   | FNC-80  |
| 100                       | 10, 15, 20, 25 | 75                       | 66   | 84                    | 84   | 1                 | 2041          | 174381   | FNC-100 |

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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

**Note**

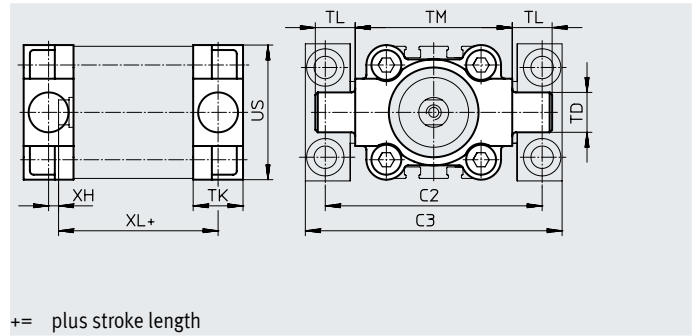
Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50



## Accessories

## Trunnion flange ZNCF

Material:  
Stainless-steel casting  
RoHS-compliant




| Dimensions and ordering data |                |     |     |                            |                           |    |    |     |     |    |
|------------------------------|----------------|-----|-----|----------------------------|---------------------------|----|----|-----|-----|----|
| For $\varnothing$            | Stroke         | C2  | C3  | D1<br>$\varnothing$<br>H11 | TD<br>$\varnothing$<br>e9 | TK | TL | TM  | US  | XH |
| [mm]                         | [mm]           |     |     |                            |                           |    |    |     |     |    |
| 32                           | 5              | 71  | 86  | 30                         | 12                        | 16 | 12 | 50  | 45  | 2  |
|                              | 10, 15, 20, 25 |     |     |                            |                           |    |    |     |     |    |
| 40                           | 5, 10          | 87  | 105 | 35                         | 16                        | 20 | 16 | 63  | 54  | 4  |
|                              | 15, 20, 25     |     |     |                            |                           |    |    |     |     |    |
| 50                           | 10             | 99  | 117 | 40                         | 16                        | 24 | 16 | 75  | 64  | 4  |
|                              | 15, 20, 25     |     |     |                            |                           |    |    |     |     |    |
| 63                           | 10             | 116 | 136 | 45                         | 20                        | 24 | 20 | 90  | 75  | 4  |
|                              | 15, 20, 25     |     |     |                            |                           |    |    |     |     |    |
| 80                           | 10, 15, 20, 25 | 136 | 156 | 45                         | 20                        | 28 | 20 | 110 | 93  | 6  |
| 100                          | 10, 15, 20, 25 | 164 | 189 | 55                         | 25                        | 38 | 25 | 132 | 110 | 9  |

| For $\varnothing$ | Stroke         | XL                       |      |                       |      | CRC <sup>1)</sup> | Weight | Part no. | Type     |
|-------------------|----------------|--------------------------|------|-----------------------|------|-------------------|--------|----------|----------|
|                   |                | Without position sensing |      | With position sensing |      |                   |        |          |          |
| [mm]              | [mm]           | ADVC                     | AEVC | ADVC                  | AEVC |                   | [g]    |          |          |
| 32                | 5              | 43                       | 30   | 47                    | 47   | 2                 | 150    | 174411   | ZNCF-32  |
|                   | 10, 15, 20, 25 |                          | 34   |                       |      |                   |        |          |          |
| 40                | 5, 10          | 45.5                     | 35.5 | 54                    | 54   | 2                 | 285    | 174412   | ZNCF-40  |
|                   | 15, 20, 25     |                          | 40.5 |                       |      |                   |        |          |          |
| 50                | 10             | 48                       | 33.1 | 58                    | 60   | 2                 | 473    | 174413   | ZNCF-50  |
|                   | 15, 20, 25     |                          | 40.5 |                       |      |                   |        |          |          |
| 63                | 10             | 55                       | 38   | 61                    | 61   | 2                 | 687    | 174414   | ZNCF-63  |
|                   | 15, 20, 25     |                          | 45   |                       |      |                   |        |          |          |
| 80                | 10, 15, 20, 25 | 62                       | 57   | 71                    | 71   | 2                 | 1296   | 174415   | ZNCF-80  |
| 100               | 10, 15, 20, 25 | 78                       | 69   | 87                    | 87   | 2                 | 2254   | 174416   | ZNCF-100 |

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.

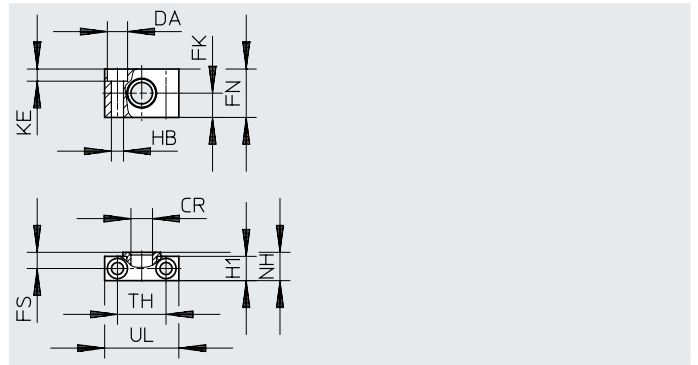
-  - **Note**

Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

### Trunnion support LN2G

Material:  
 Trunnion support: Anodised aluminium  
 Plain bearing: Plastic  
 RoHS-compliant



#### Dimensions and ordering data

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

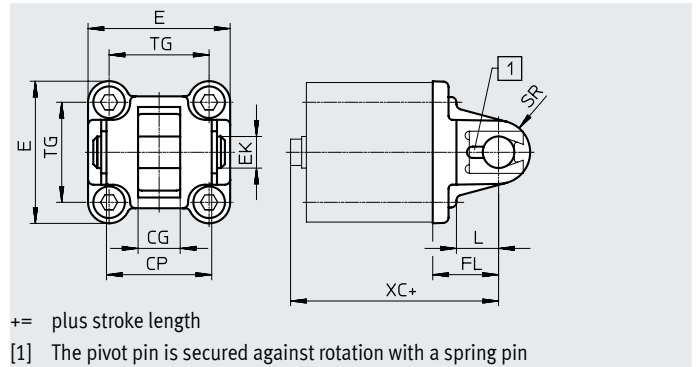
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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

## Swivel flange SNC

Material:  
Die-cast aluminium  
RoHS-compliant




## Dimensions and ordering data

| For $\varnothing$ | Stroke         | CG  | CP  | EK                  | FL        | L  | SR |
|-------------------|----------------|-----|-----|---------------------|-----------|----|----|
| [mm]              | [mm]           | H14 | h14 | $\varnothing$<br>h9 | $\pm 0.2$ |    |    |
| 32                | 5              | 14  | 34  | 10                  | 22        | 13 | 10 |
|                   | 10, 15, 20, 25 |     |     |                     |           |    |    |
| 40                | 5, 10          | 16  | 40  | 12                  | 25        | 16 | 12 |
|                   | 15, 20, 25     |     |     |                     |           |    |    |
| 50                | 10             | 21  | 45  | 16                  | 27        | 16 | 12 |
|                   | 15, 20, 25     |     |     |                     |           |    |    |
| 63                | 10             | 21  | 51  | 16                  | 32        | 21 | 16 |
|                   | 15, 20, 25     |     |     |                     |           |    |    |
| 80                | 10, 15, 20, 25 | 25  | 65  | 20                  | 36        | 22 | 16 |
| 100               | 10, 15, 20, 25 | 25  | 75  | 20                  | 41        | 27 | 20 |

| For $\varnothing$ | Stroke         | XC                       |      |                       |      | CRC <sup>1)</sup> | Weight | Part no. | Type    |
|-------------------|----------------|--------------------------|------|-----------------------|------|-------------------|--------|----------|---------|
|                   |                | Without position sensing |      | With position sensing |      |                   |        |          |         |
| [mm]              | [mm]           | ADVC                     | AEVC | ADVC                  | AEVC |                   | [g]    |          |         |
| 32                | 5              | 57                       | 44   | 61                    | 61   | 1                 | 93     | 174383   | SNC-32  |
|                   | 10, 15, 20, 25 |                          | 48   |                       |      |                   |        |          |         |
| 40                | 5, 10          | 60.5                     | 50.5 | 69                    | 69   | 1                 | 140    | 174384   | SNC-40  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |         |
| 50                | 10             | 63                       | 48.1 | 73                    | 75   | 1                 | 234    | 174385   | SNC-50  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |         |
| 63                | 10             | 75                       | 58   | 81                    | 81   | 1                 | 331    | 174386   | SNC-63  |
|                   | 15, 20, 25     |                          | 65   |                       |      |                   |        |          |         |
| 80                | 10, 15, 20, 25 | 84                       | 79   | 93                    | 93   | 1                 | 618    | 174387   | SNC-80  |
| 100               | 10, 15, 20, 25 | 100                      | 91   | 109                   | 109  | 1                 | 865    | 174388   | SNC-100 |

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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

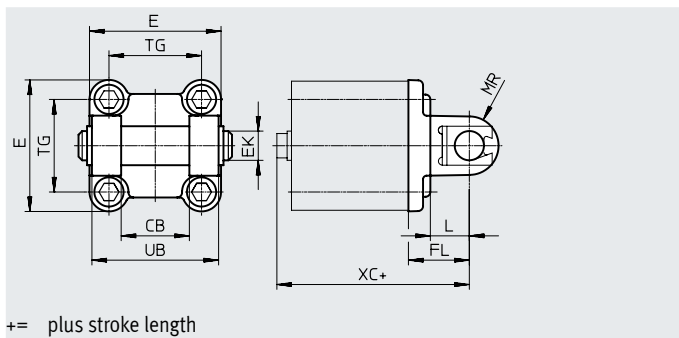
-  - **Note**

Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

### Swivel flange SNCB

Material:  
Die-cast aluminium  
RoHS-compliant



+ = plus stroke length

| Dimensions and ordering data |                |     |                     |           |    |     |     |
|------------------------------|----------------|-----|---------------------|-----------|----|-----|-----|
| For $\varnothing$            | Stroke         | CB  | EK<br>$\varnothing$ | FL        | L  | MR  | UB  |
| [mm]                         | [mm]           | H14 | E8                  | $\pm 0.2$ |    |     | h14 |
| 32                           | 5              | 26  | 10                  | 22        | 13 | 8.5 | 45  |
|                              | 10, 15, 20, 25 |     |                     |           |    |     |     |
| 40                           | 5, 10          | 28  | 12                  | 25        | 16 | 12  | 52  |
|                              | 15, 20, 25     |     |                     |           |    |     |     |
| 50                           | 10             | 32  | 12                  | 27        | 16 | 12  | 60  |
|                              | 15, 20, 25     |     |                     |           |    |     |     |
| 63                           | 10             | 40  | 16                  | 32        | 21 | 16  | 70  |
|                              | 15, 20, 25     |     |                     |           |    |     |     |
| 80                           | 10, 15, 20, 25 | 50  | 16                  | 36        | 22 | 16  | 90  |
| 100                          | 10, 15, 20, 25 | 60  | 20                  | 41        | 27 | 20  | 110 |

| For $\varnothing$ | Stroke         | XC                       |      |                       |      | CRC <sup>1)</sup> | Weight | Part no. | Type     |
|-------------------|----------------|--------------------------|------|-----------------------|------|-------------------|--------|----------|----------|
|                   |                | Without position sensing |      | With position sensing |      |                   |        |          |          |
| [mm]              | [mm]           | ADVC                     | AEVC | ADVC                  | AEVC | [g]               |        |          |          |
| 32                | 5              | 57                       | 44   | 61                    | 61   | 1                 | 103    | 174390   | SNCB-32  |
|                   | 10, 15, 20, 25 |                          | 48   |                       |      |                   |        |          |          |
| 40                | 5, 10          | 60.5                     | 50.5 | 69                    | 69   | 1                 | 155    | 174391   | SNCB-40  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |          |
| 50                | 10             | 63                       | 48.1 | 73                    | 75   | 1                 | 232    | 174392   | SNCB-50  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |          |
| 63                | 10             | 75                       | 58   | 81                    | 81   | 1                 | 375    | 174393   | SNCB-63  |
|                   | 15, 20, 25     |                          | 65   |                       |      |                   |        |          |          |
| 80                | 10, 15, 20, 25 | 84                       | 79   | 93                    | 93   | 1                 | 636    | 174394   | SNCB-80  |
| 100               | 10, 15, 20, 25 | 100                      | 91   | 109                   | 109  | 1                 | 1035   | 174395   | SNCB-100 |

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 coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

- **Note**

Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

## Swivel flange SNCS

Material:

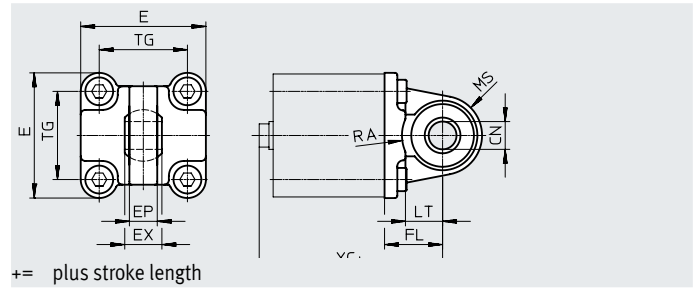
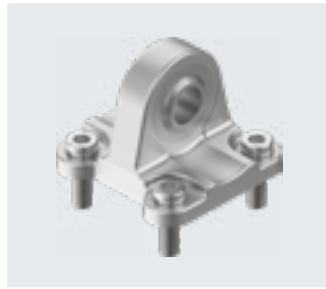
SNCS 32 ... 50:

Die-cast aluminium

SNCS 63 ... 100:

Wrought aluminium alloy

RoHS-compliant



## Dimensions and ordering data

| For $\varnothing$ | Stroke         | CN<br>$\varnothing$ | E                | EP<br>$\pm 0.2$ | EX | FL<br>$\pm 0.2$ | LT | MS           | RA<br>$+1$ | TG   |
|-------------------|----------------|---------------------|------------------|-----------------|----|-----------------|----|--------------|------------|------|
| [mm]              | [mm]           |                     |                  |                 |    |                 |    |              |            |      |
| 32                | 5              | $10^{+0.013}$       | $45^{+0.2/-0.5}$ | 10.5            | 14 | 22              | 13 | $15^{+0.5}$  | 14.5       | 32.5 |
|                   | 10, 15, 20, 25 |                     |                  |                 |    |                 |    |              |            |      |
| 40                | 5, 10          | $12^{+0.015}$       | $54_{-0.5}$      | 12              | 16 | 25              | 16 | $17^{+0.5}$  | 17.5       | 38   |
|                   | 15, 20, 25     |                     |                  |                 |    |                 |    |              |            |      |
| 50                | 10             | $16^{+0.015}$       | $64_{-0.6}$      | 15              | 21 | 27              | 16 | $20^{+0.5}$  | 18.5       | 46.5 |
|                   | 15, 20, 25     |                     |                  |                 |    |                 |    |              |            |      |
| 63                | 10             | $16^{+0.015}$       | $74.5 \pm 0.5$   | 15              | 21 | 32              | 21 | $23_{-0.5}$  | 23         | 56.5 |
|                   | 15, 20, 25     |                     |                  |                 |    |                 |    |              |            |      |
| 80                | 10, 15, 20, 25 | $20^{+0.018}$       | $92.2 \pm 0.8$   | 18              | 25 | 36              | 22 | $28_{-0.5}$  | 25         | 72   |
| 100               | 10, 15, 20, 25 | $20^{+0.018}$       | $109^{+1/-0.7}$  | 18              | 25 | 41              | 27 | $30 \pm 0.5$ | 95         | 89   |


| For $\varnothing$ | Stroke         | XC                       |      |                       |      | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type     |
|-------------------|----------------|--------------------------|------|-----------------------|------|-------------------|---------------|----------|----------|
|                   |                | Without position sensing |      | With position sensing |      |                   |               |          |          |
| [mm]              | [mm]           | ADVC                     | AEVC | ADVC                  | AEVC |                   |               |          |          |
| 32                | 5              | 57                       | 44   | 61                    | 61   | 1                 | 86            | 174397   | SNCS-32  |
|                   | 10, 15, 20, 25 |                          | 48   |                       |      |                   |               |          |          |
| 40                | 5, 10          | 60.5                     | 50.5 | 69                    | 69   | 1                 | 122           | 174398   | SNCS-40  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |               |          |          |
| 50                | 10             | 63                       | 48.1 | 73                    | 75   | 1                 | 216           | 174399   | SNCS-50  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |               |          |          |
| 63                | 10             | 75                       | 58   | 81                    | 81   | 2                 | 281           | 174400   | SNCS-63  |
|                   | 15, 20, 25     |                          | 65   |                       |      |                   |               |          |          |
| 80                | 10, 15, 20, 25 | 84                       | 79   | 93                    | 93   | 2                 | 557           | 174401   | SNCS-80  |
| 100               | 10, 15, 20, 25 | 100                      | 91   | 109                   | 109  | 2                 | 683           | 174402   | SNCS-100 |

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 coverings, 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.

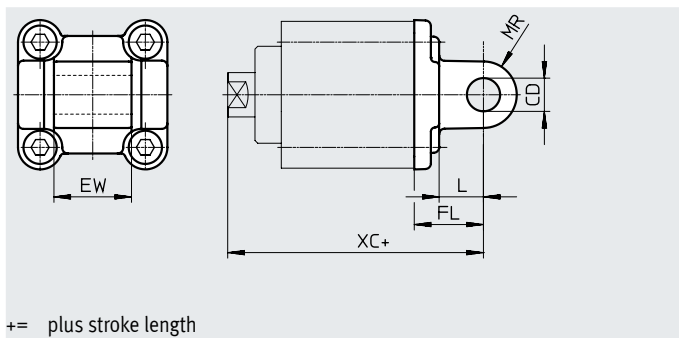
-  - Note

Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

### Swivel flange SNCL

Material:  
Die-cast aluminium  
RoHS-compliant



+ = plus stroke length

| Dimensions and ordering data |                |                     |           |           |    |    |
|------------------------------|----------------|---------------------|-----------|-----------|----|----|
| For $\varnothing$            | Stroke         | CD                  | EW        | FL        | L  | MR |
| [mm]                         | [mm]           | $\varnothing$<br>H9 | -0.2/-0.6 | $\pm 0.2$ |    |    |
| 32                           | 5              | 10                  | 26        | 22        | 13 | 10 |
|                              | 10, 15, 20, 25 |                     |           |           |    |    |
| 40                           | 5, 10          | 12                  | 28        | 25        | 16 | 12 |
|                              | 15, 20, 25     |                     |           |           |    |    |
| 50                           | 10             | 12                  | 32        | 27        | 16 | 12 |
|                              | 15, 20, 25     |                     |           |           |    |    |
| 63                           | 10             | 16                  | 40        | 32        | 21 | 16 |
|                              | 15, 20, 25     |                     |           |           |    |    |
| 80                           | 10, 15, 20, 25 | 16                  | 50        | 36        | 22 | 16 |
| 100                          | 10, 15, 20, 25 | 20                  | 60        | 41        | 27 | 20 |

| For $\varnothing$ | Stroke         | XC                       |      |                       |      | CRC <sup>1)</sup> | Weight | Part no. | Type     |
|-------------------|----------------|--------------------------|------|-----------------------|------|-------------------|--------|----------|----------|
|                   |                | Without position sensing |      | With position sensing |      |                   |        |          |          |
| [mm]              | [mm]           | ADVC                     | AEVC | ADVC                  | AEVC |                   | [g]    |          |          |
| 32                | 5              | 57                       | 44   | 61                    | 61   | 1                 | 71     | 174404   | SNCL-32  |
|                   | 10, 15, 20, 25 |                          | 48   |                       |      |                   |        |          |          |
| 40                | 5, 10          | 60.5                     | 50.5 | 69                    | 69   | 1                 | 95     | 174405   | SNCL-40  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |          |
| 50                | 10             | 63                       | 48.1 | 73                    | 75   | 1                 | 158    | 174406   | SNCL-50  |
|                   | 15, 20, 25     |                          | 55.5 |                       |      |                   |        |          |          |
| 63                | 10             | 75                       | 58   | 81                    | 81   | 1                 | 225    | 174407   | SNCL-63  |
|                   | 15, 20, 25     |                          | 65   |                       |      |                   |        |          |          |
| 80                | 10, 15, 20, 25 | 84                       | 79   | 93                    | 93   | 1                 | 436    | 174408   | SNCL-80  |
| 100               | 10, 15, 20, 25 | 100                      | 91   | 109                   | 109  | 1                 | 655    | 174409   | SNCL-100 |

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

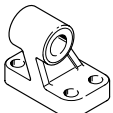
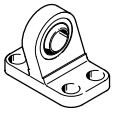
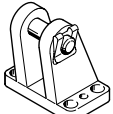
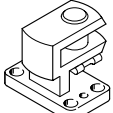
Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

- **Note**

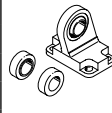

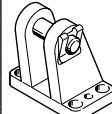
Screws with special lengths are required to fit diameters 80 mm and 100 mm. → page 50

## Accessories

## Ordering data – Mounting components


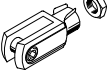
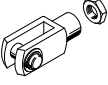
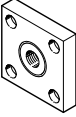
| Designation   | For $\varnothing$ | Part no. | Type     |
|---|-------------------|----------|----------|
| <b>Clevis foot LNG</b>  |                   |          |          |
|    | 32                | 33890    | LNG-32   |
|   | 40                | 33891    | LNG-40   |
|   | 50                | 33892    | LNG-50   |
|   | 63                | 33893    | LNG-63   |
|   | 80                | 33894    | LNG-80   |
|   | 100               | 33895    | LNG-100  |
| <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 |
| <b>Clevis foot LBG on swivel flange SNCS</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  |
| <b>Right angle clevis foot LQG</b>  |                   |          |          |
|  | 32, 40            | 31768    | LQG-32   |
|   | 50, 63            | 31769    | LQG-40   |
|   | 80                | 31770    | LQG-50   |
|   |                   | 31771    | LQG-63   |
|   | 100               | 31772    | LQG-80   |
|   |                   | 31773    | LQG-100  |

Data sheets → Internet: clevis foot

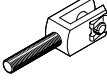
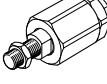
| Designation   | For $\varnothing$ | Part no. | Type      |
|---|-------------------|----------|-----------|
| <b>Clevis foot LSN</b>  |                   |          |           |
|  | 32                | 5561     | LSN-32    |
|   | 40                | 5562     | LSN-40    |
|   | 50                | 5563     | LSN-50    |
|   | 63                | 5564     | LSN-63    |
|   | 80                | 5565     | LSN-80    |
|   | 100               | 5566     | LSN-100   |
| <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 |
| <b>Clevis foot LBG on rod eye SGS</b>   |                   |          |           |
|  | 32, 40            | 31761    | LBG-32    |
|   | 50, 63            | 31762    | LBG-40    |
|   | 80                | 31763    | LBG-50    |
|   |                   | 31764    | LBG-63    |
|   | 100               | 31765    | LBG-80    |
|   |                   | 31766    | LBG-100   |

Accessories

Ordering data – Piston rod attachments









| Designation  | For ø        | Part no.           | Type                |
|--|--------------|--------------------|---------------------|
| <b>Rod eye SGS</b>   |              |                    |                     |
|    | 10           | <b>9253</b>        | <b>SGS-M4</b>       |
|  | 16           | <b>9254</b>        | <b>SGS-M6</b>       |
|  | 20           | <b>9255</b>        | <b>SGS-M8</b>       |
|  | 25           |                    |                     |
|  | 32           |                    |                     |
|  | 40           | <b>9261</b>        | <b>SGS-M10x1.25</b> |
|  | 50           |                    |                     |
|  | 63           | <b>9262</b>        | <b>SGS-M12x1.25</b> |
|  | 80           |                    |                     |
|  | 100          | <b>9263</b>        | <b>SGS-M16x1.5</b>  |
|  | <b>9264</b>  | <b>SGS-M20x1.5</b> |                     |
| <b>Rod clevis SG</b>   |              |                    |                     |
|    | 10           | <b>6532</b>        | <b>SG-M4</b>        |
|  | 12           | –                  | –                   |
|  | 16           | <b>3110</b>        | <b>SG-M6</b>        |
|  | 20           | <b>3111</b>        | <b>SG-M8</b>        |
|  | 25           |                    |                     |
|  | 32           |                    |                     |
|  | 40           | <b>6144</b>        | <b>SG-M10x1.25</b>  |
|  | 50           |                    |                     |
|  | 63           | <b>6145</b>        | <b>SG-M12x1.25</b>  |
|  | 80           |                    |                     |
|   | 100          | <b>6146</b>        | <b>SG-M16x1.5</b>   |
|  |              | <b>6147</b>        | <b>SG-M20x1.5</b>   |
| <b>Coupling piece KSG</b>  |              |                    |                     |
|  | 32           | <b>32963</b>       | <b>KSG-M10x1.25</b> |
|  | 40           |                    |                     |
|  | 50           | <b>32964</b>       | <b>KSG-M12x1.25</b> |
|  | 63           |                    |                     |
|  | 80           |                    |                     |
|  | 100          | <b>32965</b>       | <b>KSG-M16x1.5</b>  |
|  | <b>32966</b> | <b>KSG-M20x1.5</b> |                     |

Data sheets → Internet: piston rod attachment




| Designation   | For ø       | Part no.          | Type                |
|---|-------------|-------------------|---------------------|
| <b>Rod clevis SGA</b>   |             |                   |                     |
|  | 32          | –                 |                     |
|   | 40          |                   |                     |
|   | 50          |                   |                     |
|   | 63          |                   |                     |
|   | 32          | <b>32954</b>      | <b>SGA-M10x1.25</b> |
|   | 40          |                   |                     |
|   | 50          | <b>10767</b>      | <b>SGA-M12x1.25</b> |
|   | 63          |                   |                     |
|   | 80          | <b>10768</b>      | <b>SGA-M16x1.5</b>  |
|   | 100         | <b>10769</b>      | <b>SGA-M20x1.5</b>  |
| <b>Self-aligning rod coupler FK</b>   |             |                   |                     |
|  | 10          | <b>6528</b>       | <b>FK-M4</b>        |
|   | 12          | <b>30984</b>      | <b>FK-M5</b>        |
|   | 16          | <b>2061</b>       | <b>FK-M6</b>        |
|   | 20          | <b>2062</b>       | <b>FK-M8</b>        |
|   | 25          |                   |                     |
|   | 32          |                   |                     |
|   | 40          | <b>6140</b>       | <b>FK-M10x1.25</b>  |
|   | 50          |                   |                     |
|   | 63          | <b>6141</b>       | <b>FK-M12x1.25</b>  |
|   | 80          |                   |                     |
| 100   | <b>6142</b> | <b>FK-M16x1.5</b> |                     |
|   | <b>6143</b> | <b>FK-M20x1.5</b> |                     |



## Accessories

| Ordering data – Proximity sensors for T-slot, magneto-resistive                     |  |                              |   |                  |                        | Data sheets → Internet: smt  |
|---|--|------------------------------|---|------------------|------------------------|------------------------------|
|   | Type of mounting   | Switching output             | Electrical connection                                 | Cable length [m] | Part no.               | Type                         |
| <b>N/O contact</b>  |  |                              |   |                  |                        |                              |
|    | 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    |
| <b>N/C contact</b>  |  |                              |   |                  |                        |                              |
|    | 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 sensors for T-slot, magnetic reed                         |  |                              |   |                  |                        | Data sheets → Internet: sme  |
|   | Type of mounting   | Switching output             | Electrical connection                                 | Cable length [m] | Part no.               | Type                         |
| <b>N/O contact</b>  |  |                              |   |                  |                        |                              |
|    | 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      |
| <b>N/C contact</b>  |  |                              |   |                  |                        |                              |
|   | 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 – Proximity sensors for C-slot, magneto-resistive                     |  |                              |   |                  |                        | Data sheets → Internet: smt  |
|   | Type of mounting   | Switching output             | Electrical connection, outlet direction of connection | Cable length [m] | Part no.               | Type                         |
| <b>N/O contact</b>  |  |                              |   |                  |                        |                              |
|  | Inserted in the slot from above  | PNP                          | Plug M8x1, 3-pin, in-line                             | 0.3              | 551375                 | SMT-10M-PS-24V-E-0.3-L-M8D   |
|   |  |                              | Cable, 3-wire, in-line                                | 2.5              | 551373                 | SMT-10M-PS-24V-E-2.5-L-OE    |
| 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    |                              |
|   |  |                              | 5.0   | 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   |                              |
|   |  |                              | 5.0   | 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    |                              |
|   |  |                              | 5.0   | 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   |                              |
|   |  |                              | 5.0   | 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          |                        |                              |

## Accessories

| Ordering data – One-way flow control valves  |  |                                 |                                 | Data sheets → Internet: grl |                 |                    |              |
|--|--|---------------------------------|---------------------------------|-----------------------------|-----------------|--------------------|--------------|
|  | Connection Thread  | For tubing O.D.                 | Material                        | Part no.                    | Type            |                    |              |
| <b>For exhaust air</b>   |  |                                 |                                 |                             |                 |                    |              |
|    | M3   | 3                               | Metal design                    | 175041                      | GRLA-M3-QS-3    |                    |              |
|  | M5   | 3                               |                                 | 193137                      | GRLA-M5-QS-3-D  |                    |              |
|  |  | 4                               |                                 | 193138                      | GRLA-M5-QS-4-D  |                    |              |
|  |  | 6                               |                                 | 193139                      | GRLA-M5-QS-6-D  |                    |              |
|  |  | G1/8                            |                                 | 3                           | 193142          | GRLA-1/8-QS-3-D    |              |
|  | G1/8   | 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    |              |
|  |  | G1/4                            |                                 | 8                           | 193147          | GRLA-1/4-QS-8-D    |              |
|  |  |                                 |                                 | 10                          | 193148          | GRLA-1/4-QS-10-D   |              |
|  | <b>For supply air</b>  |                                 |                                 |                             |                 |                    |              |
|  |  | M3                              |                                 | 3                           | Metal design    | 175043             | GRLZ-M3-QS-3 |
| M5   |  | 3                               | 193153                          | GRLZ-M5-QS-3-D              |                 |                    |              |
|  |  | 4                               | 193154                          | GRLZ-M5-QS-4-D              |                 |                    |              |
|  |  | 6                               | 193155                          | GRLZ-M5-QS-6-D              |                 |                    |              |
|  |  | G1/8                            | 3                               | 193156                      |                 | GRLZ-1/8-QS-3-D    |              |
| G1/8   |  | 4                               | 193157                          | GRLZ-1/8-QS-4-D             |                 |                    |              |
|  |  | 6                               | 193158                          | GRLZ-1/8-QS-6-D             |                 |                    |              |
|  |  | 8                               | 193159                          | GRLZ-1/8-QS-8-D             |                 |                    |              |
|  |  | <b>Ordering data – Screws</b>   |                                 |                             |                 |                    |              |
|  |  | 80                              | HNC, FNC, SNC, SNCB, SNCS, SNCL | 238600                      |                 | DIN 912-M10X30-8.8 | 1            |
|  | ZNCF   |                                 | 204138                          | DIN 912-M10X40-10.9         |                 |                    |              |
|  | 100  | HNC, FNC, SNC, SNCB, SNCS, SNCL | 238600                          | DIN 912-M10X30-8.8          |                 |                    |              |
|  |  | ZNCF                            | 370524                          | DIN 912-M10X50-8.8          |                 |                    |              |

1) Packaging unit quantity