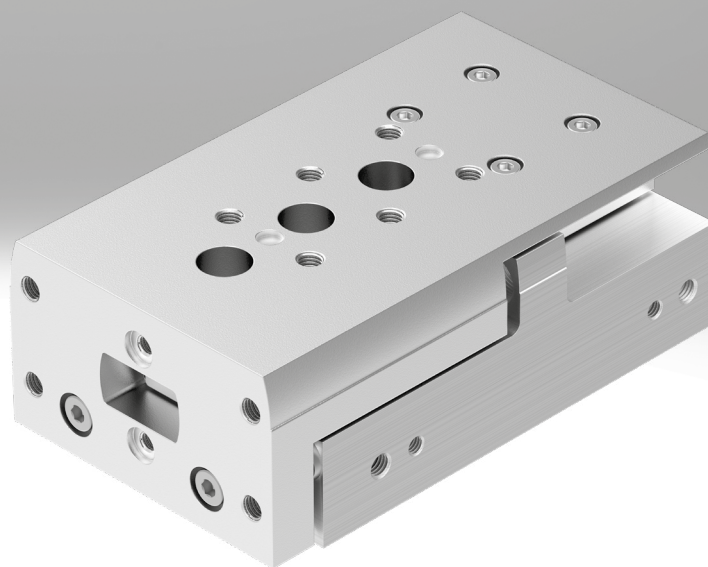


## Mini slide DGST

**FESTO**

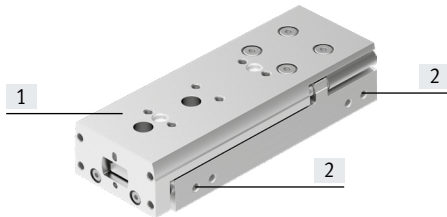


## Key features

### At a glance

- Compact mini slide
- Slide and yoke plate as a single component
- Excellent value for money
- High feed forces
- Symmetrical mounting interfaces
- Precise and resilient roller bearing guide
- Simple design with symmetrical mounting interfaces
- Can be operated without additional cushioning components

### The technology in detail



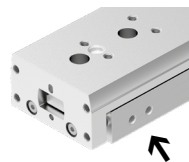
[1] Slide and yoke plate



- Slide and yoke plate as a single component, ensuring very high rigidity, precision and alignment

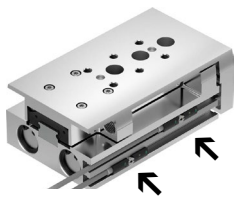


[2] Supply ports



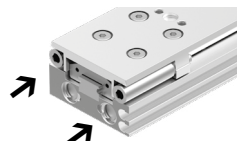
- All connections on one side

[3] Sensor slots for sensing the slide position



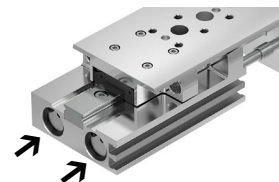
- Proximity switches can be integrated, so there are no projecting parts
- Both end positions can be sensed from one side
- Two sensor slots for sensing

[4] Cushioning and precision end-position adjustment



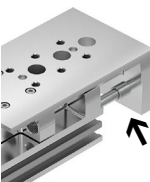
- Cushioning types:
  - Elastic cushioning rings/plates at both ends (P)
  - Elastomer cushioning, adjustable at both ends, with fixed stop (P1)
  - Elastomer cushioning, short, at both ends (E)
  - Elastomer cushioning, at both ends, stroke not adjustable (E1)
  - Shock absorber, self-adjusting, linear, at both ends, external (Y12)
- Precision end-position adjustment is possible from one end

[5] Twin-piston drive



- Theoretical force at 6 bar: 34 ... 590 N
- Max. payload: 0.7 ... 17 kg

[6] Backlash-free piston rod/yoke connection



- Enhanced precision
- Longer service life

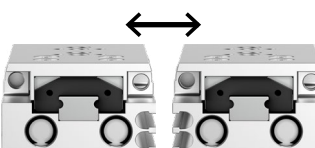
### Version

[L] Mirror-imaged



- Position of the supply ports and sensor slots is mirror-inverted

### Mounting example

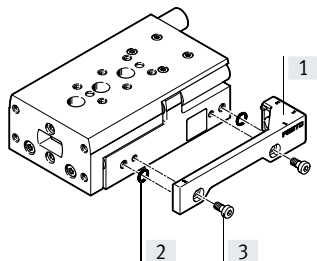


- Space-saving mounting of mini-slides next to one another

## Key features

### Axial supply ports via connection kit

→ Page 50

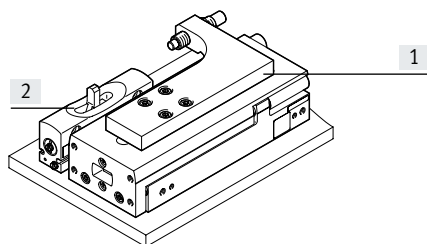


- The connection kit enables having axial supply ports
- Particularly suitable for applications in which no space is available at the side for supply ports

- [1] Connection set DADG-AK-G8-...  
[2] Seals  
[3] Screws

### Intermediate-position module

→ Page 52



The intermediate-position module enables an additional adjustable position within the stroke range.

- [1] Shock absorber retainer  
[2] Intermediate-position module

- The symmetrical design means that the intermediate position can be approached when advancing or retracting, depending on the assembly
- Can be travelled through from the end position
- Possible to continue on directly from the intermediate position
- Easy to assemble
- Sensing of the stop lever position is possible

### Application areas

Mainly in industry segments such as:

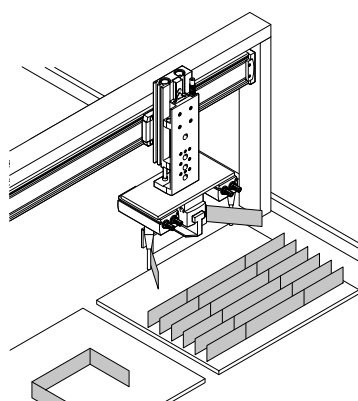
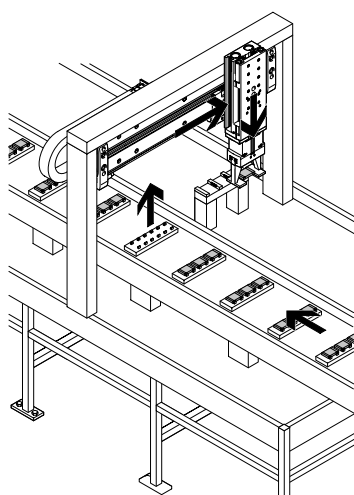
- Electronics and assembly technology
- Machine building
- Handling technology

Examples include the following:

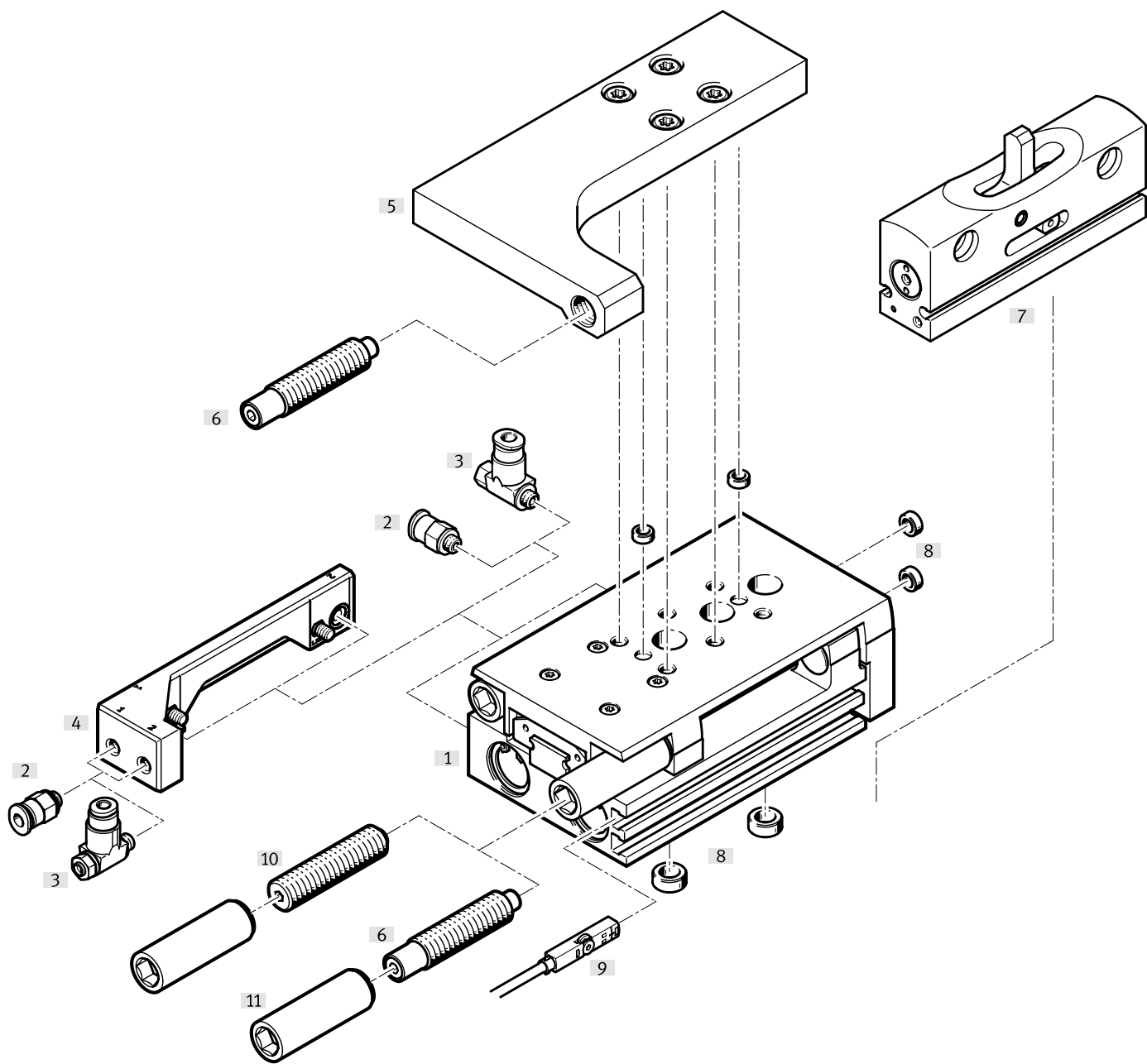
- Pick & place handling units
- Piggyback handling units
- Precise positioning
- Precise press-fitting

### Application examples

Pick & Place handling unit



Peripherals overview



## Peripherals overview

| Accessories |                                       | Description                                                                                                                                                                  | → Page/Internet |
|-------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| [1]         | Mini slide<br>DGST                    | Compact design                                                                                                                                                               | 7               |
| [2]         | Push-in fitting<br>QSM                | For connecting tubing with standard O.D.                                                                                                                                     | 56              |
| [3]         | One-way flow control valve<br>GRLA    | For regulating speed                                                                                                                                                         | 56              |
| [4]         | Connection set<br>DADG-AK-G8          | For axial connection of compressed air tubing                                                                                                                                | 50              |
| [5]         | Shock absorber retainer<br>DADP       | <ul style="list-style-type: none"> <li>• Attachment for the shock absorber</li> <li>• For positioning and cushioning the intermediate position</li> </ul>                    | 54              |
| [6]         | Cushioning<br>Y12                     | Shock absorber, self-adjusting, linear, at both ends, external                                                                                                               | 55              |
| [7]         | Intermediate-position module<br>DADM  | With stop lever for the intermediate position                                                                                                                                | 52              |
| [8]         | Centring sleeve<br>ZBH                | <ul style="list-style-type: none"> <li>• For centring loads and attachments</li> <li>• (Centring sleeves not included in the scope of delivery of the mini slide)</li> </ul> | 56              |
| [9]         | Proximity switch<br>SMT-10/-8         | For position sensing Can be integrated in the sensor slot, so it does not protrude                                                                                           | 57              |
|             | Position transmitter<br>SMAT-8M, SDAT | <ul style="list-style-type: none"> <li>• Analogue position feedback possible</li> <li>• Choice of analogue output: 0 ... 10 V, 0 ... 20 mA</li> </ul>                        | 58              |
| [10]        | Cushioning<br>P                       | Elastic cushioning rings/plates at both ends                                                                                                                                 | 55              |
|             | Cushioning<br>P1                      | Elastomer cushioning, adjustable at both ends, with fixed stop                                                                                                               | 55              |
|             | Cushioning<br>E                       | Elastomer cushioning, short, at both ends                                                                                                                                    | 55              |
| –           | Distance sensor<br>SOIA               | For monitoring the condition of the damping elements                                                                                                                         | 55              |
| [11]        | Threaded sleeve                       | <ul style="list-style-type: none"> <li>• For mounting the cushioning components</li> <li>• Included in the scope of delivery for cushioning [6]/[8]</li> </ul>               | 56              |

## Type codes

| 001  | Series      |  |
|------|-------------|--|
| DGST | Slide drive |  |

| 002 | Size [mm] |  |
|-----|-----------|--|
| 6   | 6         |  |
| 8   | 8         |  |
| 10  | 10        |  |
| 12  | 12        |  |
| 16  | 16        |  |
| 20  | 20        |  |
| 25  | 25        |  |

| 003 | Stroke [mm] |  |
|-----|-------------|--|
| 10  | 10          |  |
| 20  | 20          |  |
| 30  | 30          |  |
| 40  | 40          |  |
| 50  | 50          |  |
| 80  | 80          |  |
| 100 | 100         |  |
| 125 | 125         |  |
| 150 | 150         |  |
| 200 | 200         |  |

| 004 | Version         |  |
|-----|-----------------|--|
|     | Standard        |  |
| L   | Mirror-inverted |  |

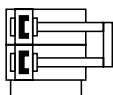
| 005 | Cushioning                                                      |  |
|-----|-----------------------------------------------------------------|--|
| P   | Elastic cushioning rings/plates on both sides                   |  |
| P1  | Elastomer cushioning, adjustable on both sides, with fixed stop |  |
| E   | Elastomer cushioning, short, on both sides                      |  |
| E1  | Elastomer cushioning, double-sided, stroke not adjustable       |  |
| Y12 | Shock absorber, self-adjusting, linear at both ends, external   |  |

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

| 007 | Special material properties                                                        |  |
|-----|------------------------------------------------------------------------------------|--|
|     | None                                                                               |  |
| F1A | Recommended for production facilities for the manufacture of lithium-ion batteries |  |

| 008 | Lubrication           |  |
|-----|-----------------------|--|
|     | Standard              |  |
| H1  | Food-safe lubrication |  |

## Datasheet



- Ø - Size  
6 ... 25
- I - Stroke length  
10 ... 200 mm



| General technical data        |                                                                |           |           |            |            |                       |            |            |   |
|-------------------------------|----------------------------------------------------------------|-----------|-----------|------------|------------|-----------------------|------------|------------|---|
| Size                          | 6                                                              | 8         | 10        | 12         | 16         | 20                    | 25         |            |   |
| Design                        | Twin piston, piston rod, slide, yoke                           |           |           |            |            |                       |            |            |   |
| Guide                         | Recirculating ball bearing guide                               |           |           |            |            | Three-part cage guide |            |            |   |
| Operating mode                | Double-acting                                                  |           |           |            |            |                       |            |            |   |
| Type of mounting              | Via through-hole                                               |           |           |            |            |                       |            |            |   |
|                               | With female thread                                             |           |           |            |            |                       |            |            |   |
| Pneumatic connection          | M3                                                             | M5        |           |            |            |                       | G1/8       |            |   |
| Stroke <sup>1)</sup>          | [mm]                                                           | 10 ... 50 | 10 ... 80 | 10 ... 100 | 10 ... 100 | 10 ... 150            | 10 ... 200 | 10 ... 200 |   |
| Cushioning                    |                                                                |           |           |            |            |                       |            |            |   |
| DGST-...P                     | Elastic cushioning rings/plates at both ends                   |           |           |            |            |                       |            |            |   |
| DGST-...P1                    | Elastomer cushioning, adjustable at both ends, with fixed stop |           |           |            |            |                       |            |            |   |
| DGST-...E                     | Elastomer cushioning, short, at both ends                      |           |           |            |            |                       |            |            |   |
| DGST-...E1                    | Elastomer cushioning, at both ends, stroke not adjustable      |           |           |            |            |                       |            |            |   |
| DGST-...Y12                   | Shock absorber, self-adjusting, linear, at both ends, external |           |           |            |            |                       |            |            |   |
| Max. cushioning length        |                                                                |           |           |            |            |                       |            |            |   |
| DGST-...P/-E                  | [mm]                                                           | 0.9       | 1.5       | 1.5        | 1.3        | 1                     | 1.2        | 1.2        |   |
| DGST-...P1                    | [mm]                                                           | 1.7       | 2.8       | 3.1        | 3.4        | 3.7                   | –          | –          |   |
| DGST-...E1 <sup>2)</sup>      | [mm]                                                           | 0.25/0.9  | 0.5/1.5   | 0.6/1.6    | 0.5/1.1    | 0.6/0.8               | 0.5/1      | 0.5/1.2    |   |
| DGST-...Y12                   | [mm]                                                           | 4         | 4         | 4          | 5          | 5                     | 8          | 10         |   |
| Position sensing              | Via proximity switch                                           |           |           |            |            |                       |            |            |   |
| Mounting position             | Any                                                            |           |           |            |            |                       |            |            |   |
| Max. speed                    |                                                                |           |           |            |            |                       |            |            |   |
| DGST-...P/-E                  | [m/s]                                                          | 0.5       | 0.8       |            |            |                       |            |            |   |
| DGST-...P1                    | [m/s]                                                          | 0.45      | 0.5       |            |            |                       |            | –          | – |
| DGST-...E1                    | [m/s]                                                          | 0.5       |           |            |            |                       |            |            |   |
| DGST-...Y12                   | [m/s]                                                          | 0.5       | 0.8       |            |            |                       |            |            |   |
| Repetition accuracy           |                                                                |           |           |            |            |                       |            |            |   |
| DGST-...P/-E/-E1              | [mm]                                                           | ≤ 0.3     |           |            |            |                       |            |            |   |
| DGST-...P1 <sup>3)</sup> /Y12 | [mm]                                                           | ≤ 0.02    |           |            |            |                       |            |            |   |

1) For variant DGST...-E1, the actual stroke is slightly longer → page 18

2) Advanced end position/retracted end position

3) Variant P1 only available for sizes 6 ... 16

| Operating and environmental conditions       |       |                                                                                            |   |              |    |    |    |    |
|----------------------------------------------|-------|--------------------------------------------------------------------------------------------|---|--------------|----|----|----|----|
| Size                                         |       | 6                                                                                          | 8 | 10           | 12 | 16 | 20 | 25 |
| Operating medium                             |       | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |   |              |    |    |    |    |
| Information on the operating medium          |       | Lubricated operation possible (in which case lubricated operation will always be required) |   |              |    |    |    |    |
| Operating pressure <sup>1)</sup>             | [MPa] | 0.15 ... 0.8                                                                               |   | 0.1 ... 0.8  |    |    |    |    |
|                                              | [psi] | 21.75 ... 116                                                                              |   | 14.5 ... 116 |    |    |    |    |
|                                              | [bar] | 1.5 ... 8                                                                                  |   | 1 ... 8      |    |    |    |    |
| Ambient temperature                          | [°C]  | −10 ... +60                                                                                |   |              |    |    |    |    |
| Corrosion resistance class CRC <sup>2)</sup> |       | 1 - Low corrosion stress                                                                   |   |              |    |    |    |    |

1) For sizes 6/8/10/12, the min. operating pressure may increase slightly after an idle period > 24 h.

2) More information: [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

## Datasheet

| Forces and impact energy               |              |       |      |      |      |      |      |      |
|----------------------------------------|--------------|-------|------|------|------|------|------|------|
| Size                                   |              | 6     | 8    | 10   | 12   | 16   | 20   | 25   |
| Theoretical force at 6 bar, advancing  | [N]          | 34    | 60   | 94   | 136  | 241  | 377  | 589  |
| Theoretical force at 6 bar, retracting | [N]          | 25    | 45   | 79   | 102  | 207  | 317  | 495  |
| Impact energy in the end positions     |              |       |      |      |      |      |      |      |
| DGST...-P/-E                           | [J]          | 0.018 | 0.05 | 0.08 | 0.12 | 0.25 | 0.35 | 0.45 |
| DGST...-P1                             | [J]          | 0.005 | 0.02 | 0.03 | 0.04 | 0.06 | –    | –    |
| DGST...-E1                             | [J]          | 0.012 | 0.03 | 0.05 | 0.07 | 0.15 | 0.2  | 0.3  |
| DGST...-Y12, per stroke                | [J]          | 0.1   | 0.4  | 0.8  | 1.4  | 2    | 3    | 6    |
| Max. operating frequency               |              |       |      |      |      |      |      |      |
| DGST...-Y12                            | [Cycles/min] | 50    | 80   | 80   | 80   | 70   | 50   | 50   |

For cushioning DGST...-P/-P1/-E/-E1, the following applies:

Permissible impact velocity:

$$v = \sqrt{\frac{2 \cdot E}{m_1 + m_2}}$$

Maximum permissible mass:

$$m_2 = \frac{2 \cdot E}{v^2} - m_1$$

v permissible impact speed

E Maximum impact energy

m<sub>1</sub> Moving mass (drive)

m<sub>2</sub> Moving payload



**Note**

These specifications represent the maximum values that can be achieved. The maximum permissible impact energy must be observed.

For cushioning DGST...-Y12, the following applies:

Permissible impact velocity:

$$v = \sqrt{\frac{2 \cdot (E - (F + (m_1 + m_2) \cdot g \cdot \sin(\alpha)) \cdot s)}{m_1 + m_2}}$$

Maximum permissible mass:

$$m_2 = \frac{E - F \cdot s}{\frac{1}{2} \cdot v^2 + g \cdot s \cdot \sin(\alpha)} - m_1$$

v Permissible impact speed

E Kinetic impact energy

F Cylinder force minus friction force

m<sub>1</sub> Moving mass (drive)

m<sub>2</sub> Moving payload

g Gravitational acceleration

s Shock absorber stroke

a Impact angle

v Impact velocity



**Note**

These specifications represent the maximum values that can be achieved. The maximum permissible impact energy must be observed.

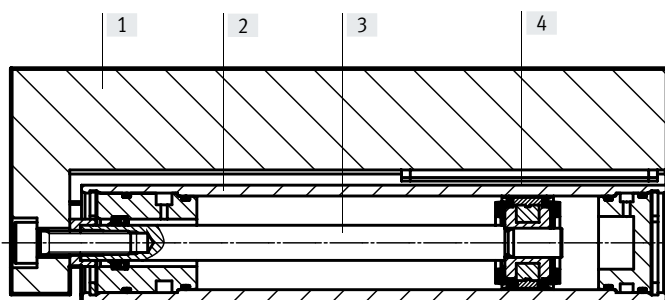
## Datasheet

| Weight [g]                                                                |             |     |      |      |      |      |       |      |
|---------------------------------------------------------------------------|-------------|-----|------|------|------|------|-------|------|
| Size                                                                      | Stroke [mm] | 6   | 8    | 10   | 12   | 16   | 20    | 25   |
| <b>Product weight without cushioning component</b>                        |             |     |      |      |      |      |       |      |
|                                                                           | 10          | 90  | 129  | 247  | 391  | 454  | 978   | 1463 |
|                                                                           | 20          | 107 | 154  | 254  | 456  | 482  | 986   | 1528 |
|                                                                           | 30          | 124 | 176  | 292  | 501  | 510  | 994   | 1547 |
|                                                                           | 40          | 140 | 200  | 324  | 563  | 629  | 1055  | 1743 |
|                                                                           | 50          | 172 | 236  | 359  | 611  | 690  | 1196  | 1816 |
|                                                                           | 80          | –   | 310  | 496  | 776  | 930  | 1618  | 2452 |
|                                                                           | 100         | –   | –    | 561  | 988  | 1060 | 1962  | 2868 |
|                                                                           | 125         | –   | –    | –    | –    | 1294 | 2346  | 3507 |
|                                                                           | 150         | –   | –    | –    | –    | 1402 | 2686  | 3927 |
|                                                                           | 200         | –   | –    | –    | –    | –    | 3275  | 4803 |
| <b>Moving mass without cushioning component</b>                           |             |     |      |      |      |      |       |      |
|                                                                           | 10          | 49  | 69   | 124  | 195  | 235  | 440   | 714  |
|                                                                           | 20          | 57  | 80   | 134  | 238  | 256  | 448   | 738  |
|                                                                           | 30          | 65  | 92   | 146  | 242  | 277  | 455   | 762  |
|                                                                           | 40          | 73  | 103  | 165  | 284  | 324  | 498   | 877  |
|                                                                           | 50          | 88  | 122  | 177  | 290  | 342  | 549   | 897  |
|                                                                           | 80          | –   | 155  | 240  | 360  | 462  | 759   | 1217 |
|                                                                           | 100         | –   | –    | 269  | 465  | 515  | 890   | 1388 |
|                                                                           | 125         | –   | –    | –    | –    | 637  | 1068  | 1703 |
|                                                                           | 150         | –   | –    | –    | –    | 660  | 1221  | 1877 |
|                                                                           | 200         | –   | –    | –    | –    | –    | 1460  | 2282 |
| <b>Cushioning elements (1 cushion and 1 threaded sleeve)<sup>1)</sup></b> |             |     |      |      |      |      |       |      |
| DGST....P                                                                 | 5           | 8.4 | 11.7 | 23   | 41   | 72.5 | 136.5 |      |
| DGST....P1                                                                | 4.5         | 7.6 | 10.8 | 20.9 | 37.6 | –    | –     |      |
| DGST....E                                                                 | 3.5         | 4.8 | 6.9  | 14.6 | 26   | 41   | 67    |      |
| DGST....Y12                                                               | 3.9         | 7.8 | 10.2 | 16   | 33   | 57   | 105   |      |

1) Add 1x for moving mass and 2x for total mass.

## Materials

## Sectional view



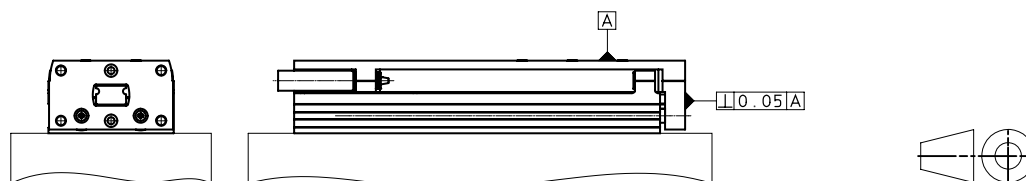
## Mini slide

|     |                                                 |                                                                    |
|-----|-------------------------------------------------|--------------------------------------------------------------------|
| [1] | Slide                                           | Wrought aluminium alloy                                            |
| [2] | Housing                                         | Wrought aluminium alloy                                            |
| [3] | Piston rod                                      | High-alloy stainless steel                                         |
| [4] | Guide                                           | POM<br>TPE-E<br>High-alloy steel                                   |
| –   | Cover                                           | Wrought aluminium alloy                                            |
|     | Seals                                           | HNBR                                                               |
|     | Note on materials                               | RoHS-compliant                                                     |
|     | LABS (PWIS) conformity                          | VDMA24364-B1/B2-L                                                  |
|     | Cleanroom class                                 | Class 6 to ISO 14644-1                                             |
|     | Suitable for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |

## Datasheet

### Perpendicularity

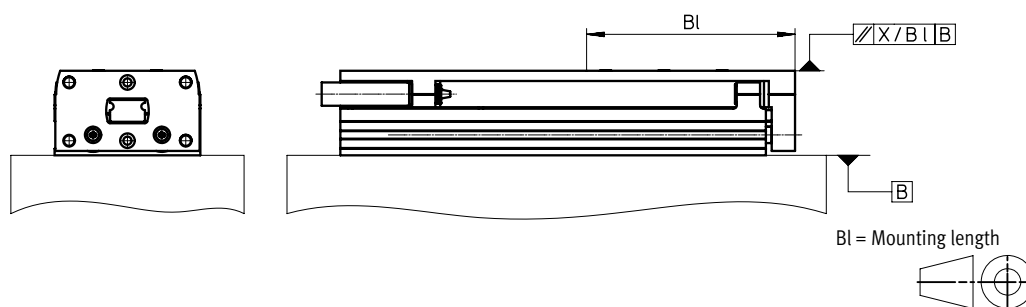
The term perpendicularity refers to the alignment accuracy between the slide surface and the yoke plate.



| Size | 6      | 8 | 10 | 12 | 16 | 20 | 25 |
|------|--------|---|----|----|----|----|----|
|      | ≤ 0.05 |   |    |    |    |    |    |

### Parallelism

The term parallelism refers to the alignment accuracy between the mounting surface and the slide surface in longitudinal direction.



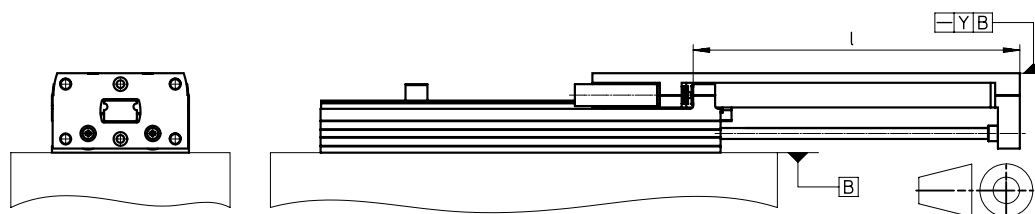
Bl = Mounting length

| Size<br>Stroke [mm] | 6                      | 8        | 10       | 12       | 16        | 20        | 25        |
|---------------------|------------------------|----------|----------|----------|-----------|-----------|-----------|
| 10                  | 0.092/43 <sup>1)</sup> | 0.09/45  | 0.093/54 | 0.086/55 | 0.089/61  | 0.081/80  | 0.088/90  |
| 20                  | 0.082/43               | 0.081/45 | 0.09/54  | 0.08/55  | 0.085/61  | 0.081/80  | 0.088/90  |
| 30                  | 0.079/43               | 0.078/45 | 0.084/54 | 0.076/55 | 0.081/61  | 0.081/80  | 0.082/90  |
| 40                  | 0.114/65               | 0.118/70 | 0.085/54 | 0.075/55 | 0.083/61  | 0.075/80  | 0.076/90  |
| 50                  | 0.096/65               | 0.103/70 | 0.113/76 | 0.101/77 | 0.109/85  | 0.065/80  | 0.07/90   |
| 80                  | –                      | 0.095/70 | 0.091/76 | 0.095/77 | 0.084/85  | 0.074/130 | 0.074/130 |
| 100                 | –                      | –        | 0.091/76 | 0.072/77 | 0.098/101 | 0.062/130 | 0.061/130 |
| 125                 | –                      | –        | –        | –        | 0.081/101 | 0.063/160 | 0.063/160 |
| 150                 | –                      | –        | –        | –        | 0.079/101 | 0.055/160 | 0.055/160 |
| 200                 | –                      | –        | –        | –        | –         | 0.044/160 | 0.044/160 |

1) Parallelism/mounting length

### Linearity

The term linearity refers to the alignment accuracy between the mounting surface and the slide surface in relation to the stroke.



| Size<br>Stroke [mm] | 6     | 8     | 10    | 12    | 16    | 20    | 25    |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| 10                  | 0.013 | 0.012 | 0.011 | 0.011 | 0.01  | 0.009 | 0.009 |
| 20                  | 0.021 | 0.02  | 0.018 | 0.016 | 0.016 | 0.014 | 0.014 |
| 30                  | 0.025 | 0.024 | 0.023 | 0.021 | 0.021 | 0.02  | 0.018 |
| 40                  | 0.029 | 0.028 | 0.026 | 0.025 | 0.025 | 0.022 | 0.021 |
| 50                  | 0.031 | 0.029 | 0.029 | 0.027 | 0.026 | 0.024 | 0.023 |
| 80                  | –     | 0.034 | 0.032 | 0.032 | 0.03  | 0.02  | 0.027 |
| 100                 | –     | –     | 0.035 | 0.032 | 0.032 | 0.027 | 0.027 |
| 125                 | –     | –     | –     | –     | 0.033 | 0.028 | 0.028 |
| 150                 | –     | –     | –     | –     | 0.035 | 0.03  | 0.03  |
| 200                 | –     | –     | –     | –     | –     | 0.032 | 0.032 |

Note: The values apply in an unpressurised state. When variants DGST with external cushioning are pressurised with compressed air, this may result in a pitching motion.

## Datasheet

### Adjustable end-position range

Precision adjustment of the advanced and retracted end positions

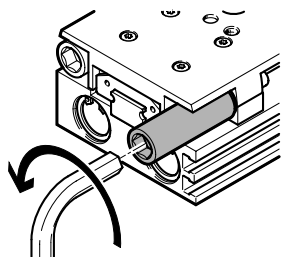
The required stroke reduction can be precisely adjusted with the cushioning components.

#### Advantages:

- No readjustment required; position is fully maintained under lock and load
- Stroke can be reduced to the next smaller standard stroke
- Fast and simple adjustment using two tools

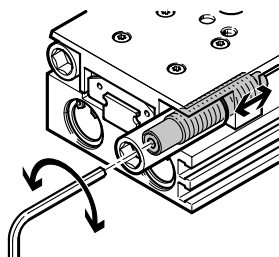
#### Step 1:

Screw the cushioning component and sleeve into the holder using a hex wrench until the stop is reached



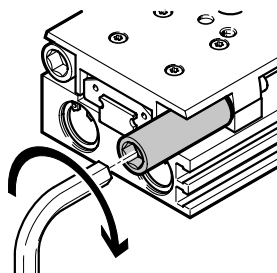
#### Step 2:

Set the exact end position using a smaller hex wrench



#### Step 3:

Secure the cushioning component by tightening the sleeve



### End-position adjustment

Dimensions:

For DGST-...-P: → page 38

For DGST-...-P1 → page 40

For DGST-...-E → page 42

For DGST-...-Y12: → page 44



#### Note

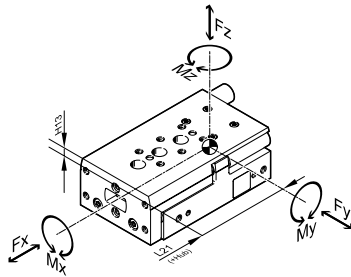
Adjust and secure the shock absorber under pressure.

## Datasheet

## Dynamic load values

The indicated torques refer to the centre of the guide.

These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



If the drive is simultaneously subjected to several of the forces and torques indicated below, the following equation must be satisfied in addition to the indicated maximum loads:

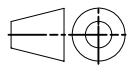
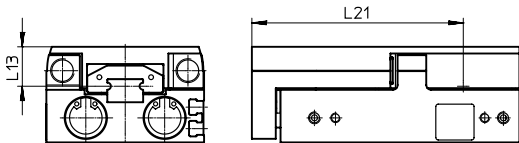
$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

$f_v$  = load comparison factor

$F_1$  = dynamic value

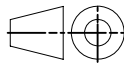
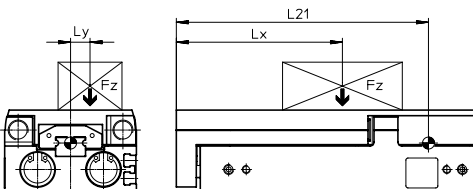
$F_2$  = maximal value

## Position of the guide centre



## Calculation example

Assuming:



Mini slide = DGST-10-80

Lever arm  $L_x$  = 0.05 m

Lever arm  $L_y$  = 0.03 m

Mass  $F_z$  = 0.8 kg

Acceleration  $a$  = 0 m/s<sup>2</sup>

To be determined:

$F_y, F_z, M_x, M_y, M_z$

and

Functional operation with combined load

Solution:

$L_{21} = 0.1102$  m from table

$F_y = 0$  N

$F_z = m \times g$   
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 = 7.848$  N

$M_x = m \times g \times L_y$   
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 \times 0.03 \text{ m} = 0.236$  Nm

$M_y = m \times g \times (L_{21} - L_x)$   
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 \times (0.1102 \text{ m} - 0.05 \text{ m}) = 0.47$  Nm

$M_z = 0$  Nm

Combined load:

$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

$$= 0 + \frac{7,848 \text{ N}}{520 \text{ N}} + \frac{0,236 \text{ Nm}}{6 \text{ Nm}} + \frac{0,47 \text{ Nm}}{5 \text{ Nm}} + 0 = 0,148 \leq 1$$

| Permissible forces and torques |                |                                                                      |                                       |                                                                       | Geometric characteristics |             |
|--------------------------------|----------------|----------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------|---------------------------|-------------|
| Size                           | Stroke<br>[mm] | F <sub>y</sub> <sub>max</sub> , F <sub>z</sub> <sub>max</sub><br>[N] | M <sub>x</sub> <sub>max</sub><br>[Nm] | M <sub>y</sub> <sub>max</sub> , M <sub>z</sub> <sub>max</sub><br>[Nm] | L13<br>[mm]               | L21<br>[mm] |
| 6                              |                |                                                                      |                                       |                                                                       |                           |             |
|                                | 10             | 200                                                                  | 1.1                                   | 0.7                                                                   | 9.35                      | 31          |
|                                | 20             | 220                                                                  | 1.1                                   | 1                                                                     |                           | 39.5        |
|                                | 30             | 240                                                                  | 1.1                                   | 1.2                                                                   |                           | 51          |
|                                | 40             | 260                                                                  | 1.2                                   | 1.2                                                                   |                           | 59.5        |
|                                | 50             | 280                                                                  | 1.4                                   | 1.2                                                                   |                           | 73.5        |
| 8                              |                |                                                                      |                                       |                                                                       |                           |             |
|                                | 10             | 250                                                                  | 2                                     | 2                                                                     | 10.75                     | 31          |
|                                | 20             | 275                                                                  | 2                                     | 2                                                                     |                           | 39.5        |
|                                | 30             | 300                                                                  | 2.8                                   | 2                                                                     |                           | 51          |
|                                | 40             | 325                                                                  | 3                                     | 2.5                                                                   |                           | 59.5        |
|                                | 50             | 350                                                                  | 3.2                                   | 3                                                                     |                           | 73.5        |
|                                | 80             | 375                                                                  | 3.2                                   | 3                                                                     |                           | 103.5       |

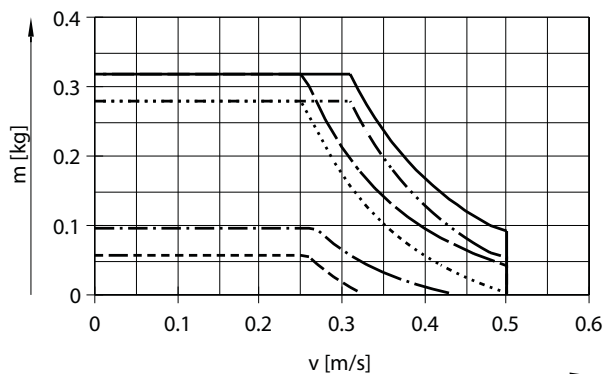
## Datasheet

| Permissible forces and torques |                |                                                                      |                                       | Geometric characteristics                                             |             |             |
|--------------------------------|----------------|----------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------|-------------|-------------|
| Size                           | Stroke<br>[mm] | F <sub>y</sub> <sub>max</sub> , F <sub>z</sub> <sub>max</sub><br>[N] | M <sub>x</sub> <sub>max</sub><br>[Nm] | M <sub>y</sub> <sub>max</sub> , M <sub>z</sub> <sub>max</sub><br>[Nm] | L13<br>[mm] | L21<br>[mm] |
| 10                             |                |                                                                      |                                       |                                                                       |             |             |
|                                | 10             | 470                                                                  | 3                                     | 3                                                                     | 12.25       | 45.7        |
|                                | 20             | 480                                                                  | 3                                     | 3                                                                     |             | 45.7        |
|                                | 30             | 490                                                                  | 3.5                                   | 3                                                                     |             | 58.5        |
|                                | 40             | 500                                                                  | 4                                     | 4.5                                                                   |             | 65.7        |
|                                | 50             | 510                                                                  | 5                                     | 4.5                                                                   |             | 78.5        |
|                                | 80             | 520                                                                  | 6                                     | 5                                                                     |             | 110.2       |
|                                | 100            | 530                                                                  | 6                                     | 6                                                                     |             | 130.2       |
| 12                             |                |                                                                      |                                       |                                                                       |             |             |
|                                | 10             | 500                                                                  | 4.2                                   | 4.2                                                                   | 14.5        | 43          |
|                                | 20             | 520                                                                  | 4.2                                   | 4.2                                                                   |             | 53          |
|                                | 30             | 540                                                                  | 4.2                                   | 4.2                                                                   |             | 63          |
|                                | 40             | 560                                                                  | 5.8                                   | 5.8                                                                   |             | 73          |
|                                | 50             | 580                                                                  | 7                                     | 5.8                                                                   |             | 83          |
|                                | 80             | 600                                                                  | 8.9                                   | 6.5                                                                   |             | 113         |
|                                | 100            | 620                                                                  | 10                                    | 6.8                                                                   |             | 139         |
| 16                             |                |                                                                      |                                       |                                                                       |             |             |
|                                | 10             | 820                                                                  | 11.3                                  | 7                                                                     | 16.5        | 48.5        |
|                                | 20             | 840                                                                  | 11.3                                  | 7                                                                     |             | 55.5        |
|                                | 30             | 860                                                                  | 11.3                                  | 7.5                                                                   |             | 59.5        |
|                                | 40             | 880                                                                  | 11.3                                  | 8                                                                     |             | 71.5        |
|                                | 50             | 900                                                                  | 11.3                                  | 8                                                                     |             | 88.5        |
|                                | 80             | 920                                                                  | 12                                    | 10                                                                    |             | 119         |
|                                | 100            | 940                                                                  | 12                                    | 10                                                                    |             | 139         |
|                                | 125            | 960                                                                  | 14                                    | 15                                                                    |             | 171.5       |
|                                | 150            | 960                                                                  | 14                                    | 16                                                                    |             | 196.5       |
| 20                             |                |                                                                      |                                       |                                                                       |             |             |
|                                | 10             | 1600                                                                 | 16                                    | 18                                                                    | 16          | 70          |
|                                | 20             | 1270                                                                 | 13                                    | 14                                                                    |             | 70          |
|                                | 30             | 1110                                                                 | 11                                    | 12                                                                    |             | 71          |
|                                | 40             | 930                                                                  | 10                                    | 11                                                                    |             | 82          |
|                                | 50             | 1080                                                                 | 9                                     | 10                                                                    |             | 93.6        |
|                                | 80             | 1030                                                                 | 14                                    | 11                                                                    |             | 131.4       |
|                                | 100            | 1160                                                                 | 18                                    | 11                                                                    |             | 160.3       |
|                                | 125            | 1380                                                                 | 20                                    | 17                                                                    |             | 192.6       |
|                                | 150            | 1300                                                                 | 20                                    | 17                                                                    |             | 222.8       |
|                                | 200            | 1170                                                                 | 20                                    | 17                                                                    |             | 279.6       |
| 25                             |                |                                                                      |                                       |                                                                       |             |             |
|                                | 10             | 1840                                                                 | 19                                    | 21                                                                    | 21          | 69.2        |
|                                | 20             | 1460                                                                 | 16                                    | 16                                                                    |             | 69.2        |
|                                | 30             | 1280                                                                 | 14                                    | 14                                                                    |             | 78.2        |
|                                | 40             | 1310                                                                 | 13                                    | 12                                                                    |             | 88.2        |
|                                | 50             | 1080                                                                 | 12                                    | 11                                                                    |             | 98.2        |
|                                | 80             | 1030                                                                 | 14                                    | 11                                                                    |             | 133.4       |
|                                | 100            | 1160                                                                 | 18                                    | 11                                                                    |             | 162.8       |
|                                | 125            | 1380                                                                 | 20                                    | 17                                                                    |             | 194.6       |
|                                | 150            | 1300                                                                 | 20                                    | 17                                                                    |             | 224.8       |
|                                | 200            | 1170                                                                 | 20                                    | 17                                                                    |             | 281.6       |

# Datasheet

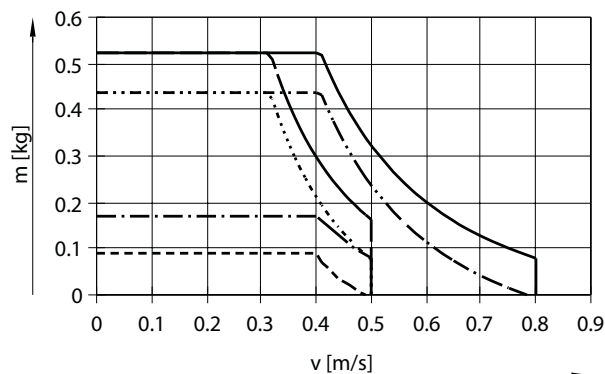
## Payload $m$ as a function of impact velocity $v$ and cushioning P/P1/E/E1

### DGST-6



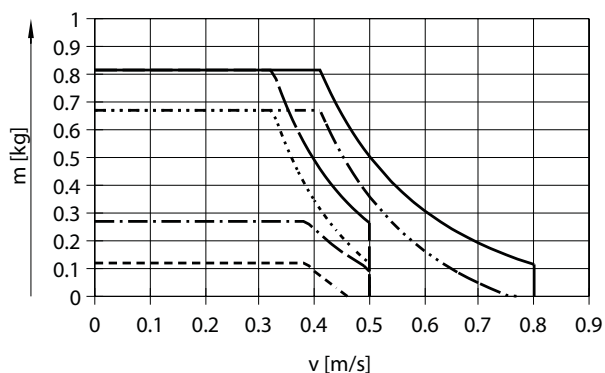
- DGST-6-10-E/-P
- - - DGST-6-50-E/-P
- DGST-6-10-E1
- - - DGST-6-50-E1
- · - DGST-6-10-P1
- - - DGST-6-50-P1

### DGST-8



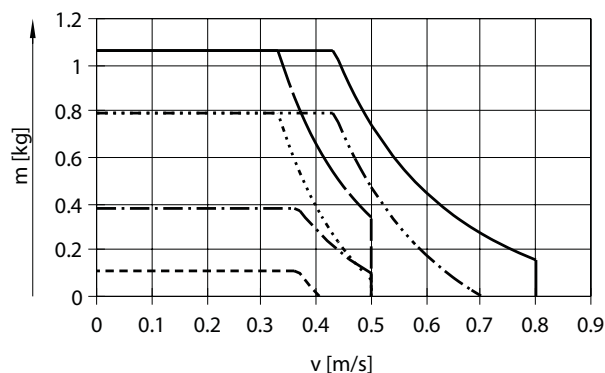
- DGST-8-10-E/-P
- - - DGST-8-80-E/-P
- DGST-8-10-E1
- - - DGST-8-80-E1
- · - DGST-8-10-P1
- - - DGST-8-80-P1

### DGST-10



- DGST-10-10-E/-P
- - - DGST-10-100-E/-P
- DGST-10-10-E1
- - - DGST-10-100-E1
- · - DGST-10-10-P1
- - - DGST-10-100-P1

### DGST-12

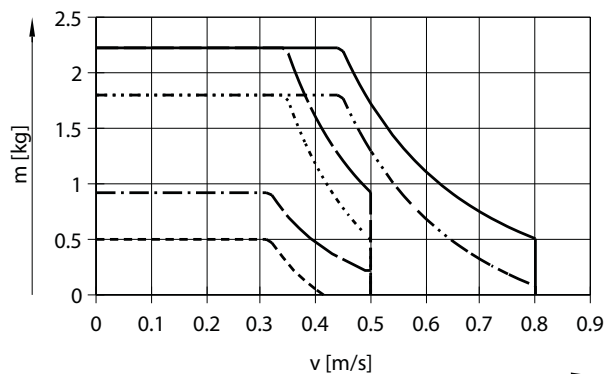


- DGST-12-10-E/-P
- - - DGST-12-100-E/-P
- DGST-12-10-E1
- - - DGST-12-100-E1
- · - DGST-12-10-P1
- - - DGST-12-100-P1

## Datasheet

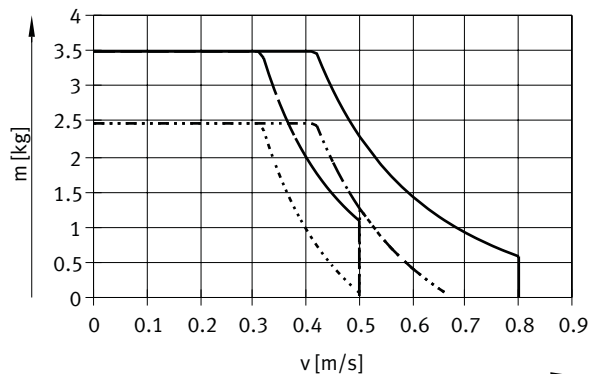
Payload  $m$  as a function of impact velocity  $v$  and cushioning P/P1/E/E1

DGST-16



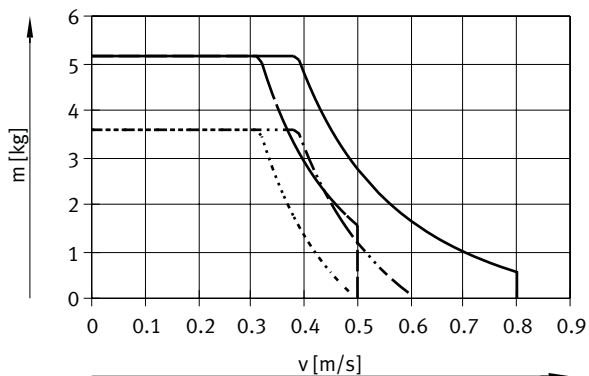
- DGST-16-10-E/-P
- - - DGST-16-150-E/-P
- DGST-16-10-E1
- - - DGST-16-150-E1
- · - DGST-16-10-P1
- · - DGST-16-150-P1

DGST-20



- DGST-20-10-E/-P
- - - DGST-20-200-E/-P
- DGST-20-10-E1
- - - DGST-20-200-E1

DGST-25

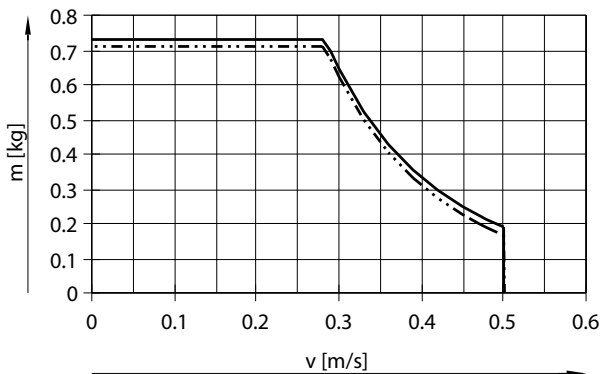


- DGST-25-10-E/-P
- - - DGST-25-200-E/-P
- DGST-25-10-E1
- - - DGST-25-200-E1

Datasheet

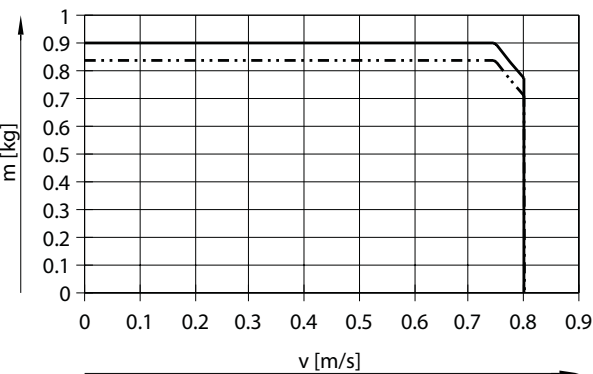
Payload m as a function of impact velocity v and cushioning Y12

DGST-6



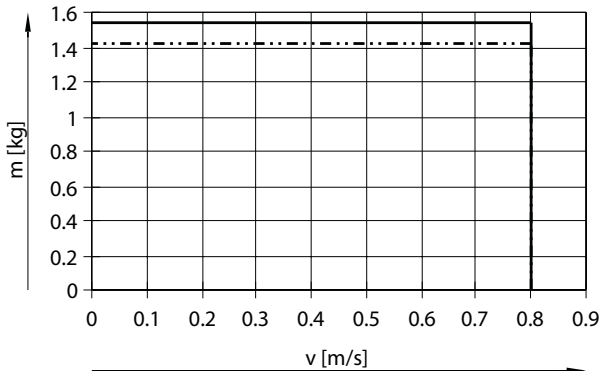
- DGST-6-30-Y12
- - - DGST-6-50-Y12

DGST-8



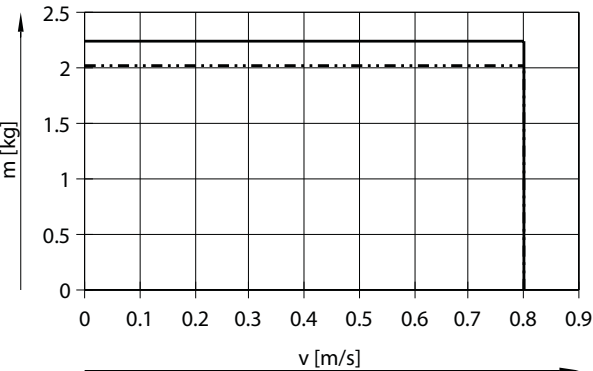
- DGST-8-30-Y12
- - - DGST-8-80-Y12

DGST-10



- DGST-10-30-Y12
- - - DGST-10-100-Y12

DGST-12

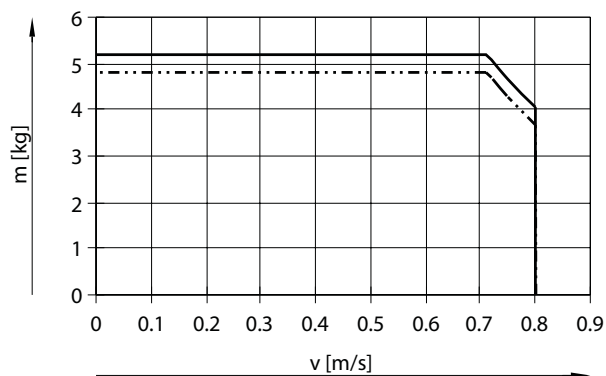


- DGST-12-30-Y12
- - - DGST-12-100-Y12

## Datasheet

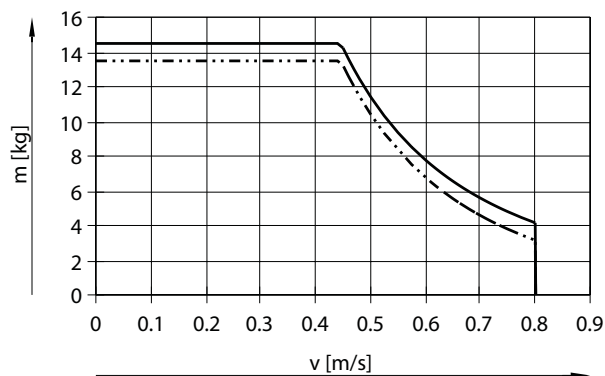
Payload  $m$  as a function of impact velocity  $v$  and cushioning Y12

DGST-16



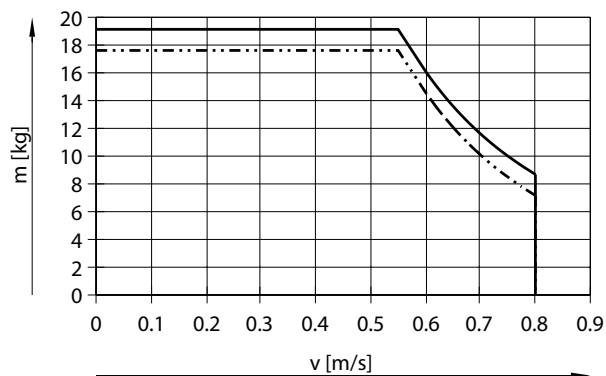
— DGST-16-30-Y12  
 - · - · - DGST-16-150-Y12

DGST-20



— DGST-20-30-Y12  
 - · - · - DGST-20-200-Y12

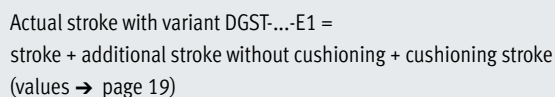
DGST-25



— DGST-25-30-Y12  
 - · - · - DGST-25-200-Y12

[ ] Standard

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



\* =  $\pm 0.02$  mm applies to the centring  
=  $\pm 0.1$  mm applies to the thread

| Size | G5 | G6     | H1 | H2   | H3   | H4  | H5   | H6  | H7   | H8 | H9   | H10  | L3   | L4   |
|------|----|--------|----|------|------|-----|------|-----|------|----|------|------|------|------|
| 6    | –  | M4x0.5 | 20 | 14.5 | 5.5  | 2.5 | 7    | 1.5 | 4.5  | 10 | 5    | –    | 5    | 22   |
| 8    | M3 | M5x0.5 | 24 | 17.7 | 6.3  | 3.1 | 8.1  | 1.5 | 5.6  | 10 | 7.3  | 12.3 | 6    | 30.5 |
| 10   | M3 | M6x0.5 | 29 | 21   | 8    | 4   | 10   | 1.5 | 7    | 20 | 5    | –    | 8    | 31   |
| 12   | M4 | M8x1   | 36 | 26.5 | 9.5  | 5.9 | 11.9 | 1.5 | 8.9  | 20 | 9.5  | –    | 10   | 36   |
| 16   | M4 | M10x1  | 40 | 30   | 10   | 5.8 | 14.8 | 1.5 | 10.3 | 20 | 11.6 | –    | 12   | 39   |
| 20   | M5 | M12x1  | 49 | 36.5 | 12.5 | 8.7 | 17.7 | 2.5 | 13.2 | 20 | 15.5 | –    | 14.5 | 51   |
| 25   | M6 | M14x1  | 60 | 44.5 | 15.5 | 11  | 21   | 2.5 | 16   | 40 | 10   | –    | 17.5 | 65   |

## Datasheet

| Size | L5 | L6 <sup>1)</sup> | L7   | L8 <sup>2)</sup> | L9   | L10 <sup>2)</sup> | T1                  | T2   | T3 <sup>3)</sup><br>max. | T4 <sup>3)</sup><br>max. | T5 <sup>3)</sup><br>max. |
|------|----|------------------|------|------------------|------|-------------------|---------------------|------|--------------------------|--------------------------|--------------------------|
| 6    | 6  | 8                | 8.5  | 15.4             | 5.8  | 12.7              | 1.3 <sup>+0.1</sup> | 8.9  | –                        | 4                        | 4                        |
| 8    | 6  | 8                | 8.5  | 16.5             | 5.5  | 13.5              | 1.3 <sup>+0.1</sup> | 11.5 | –                        | 5                        | 4.5                      |
| 10   | 8  | 10               | 8.9  | 17.9             | 6.6  | 15.6              | 1.6 <sup>+0.1</sup> | 14.5 | –                        | 6.2                      | 5                        |
| 12   | 8  | 10               | 10.7 | 19.5             | 7    | 15.8              | 1.6 <sup>+0.1</sup> | 19.8 | –                        | 7                        | 5.5                      |
| 16   | 10 | 12               | 14.2 | 23               | 6.7  | 15.5              | 2.1 <sup>+0.1</sup> | 20.8 | –                        | 6                        | 5                        |
| 20   | 10 | 12.5             | 16.5 | 30.5             | 8    | 22                | 2.6 <sup>+0.3</sup> | 31.2 | 20                       | 8                        | 8.5                      |
| 25   | 12 | 14.5             | 16.5 | 31.5             | 10.5 | 25.5              | 2.6 <sup>+0.3</sup> | 37.2 | 20                       | 9.5                      | 8                        |

| Size | T7                  | T8 <sup>3)</sup><br>max. | T9                  | T10 <sup>3)</sup><br>max. | T11 | Additional stroke without cushioning<br>with variant DGST...-E1 |      | Max. cushioning stroke in the end positions<br>with variant DGST...-E1 |      |
|------|---------------------|--------------------------|---------------------|---------------------------|-----|-----------------------------------------------------------------|------|------------------------------------------------------------------------|------|
|      |                     |                          |                     |                           |     | min.                                                            | max. | Advanced                                                               | Rear |
| 6    | 1.3 <sup>+0.1</sup> | 4.5                      | –                   | –                         | 4.6 | 0.65                                                            | 1.3  | 0.25                                                                   | 0.9  |
| 8    | 1.3 <sup>+0.1</sup> | 4.5                      | 1.3 <sup>+0.1</sup> | –                         | 5   | 0                                                               | 0.7  | 0.5                                                                    | 1.6  |
| 10   | 1.3 <sup>+0.1</sup> | 6.5                      | 1.3 <sup>+0.1</sup> | 6.5                       | 5.9 | 0                                                               | 0.7  | 0.6                                                                    | 1.6  |
| 12   | 1.3 <sup>+0.1</sup> | 6.5                      | 1.6 <sup>+0.1</sup> | 8                         | 7   | 0.4                                                             | 1.1  | 0.5                                                                    | 1.1  |
| 16   | 1.3 <sup>+0.1</sup> | 8                        | 1.6 <sup>+0.1</sup> | 8                         | 6.3 | 0.65                                                            | 1.4  | 0.6                                                                    | 0.65 |
| 20   | 2.6 <sup>+0.3</sup> | 8                        | 2.6 <sup>+0.3</sup> | 10                        | 9.1 | 0.4                                                             | 1.1  | 0.5                                                                    | 1    |
| 25   | 2.6 <sup>+0.3</sup> | 10                       | 2.6 <sup>+0.3</sup> | 13                        | 8.8 | 0.5                                                             | 1.2  | 0.5                                                                    | 1.2  |

| Stroke [mm] | 10                            | 20   | 30   | 40    | 50    | 80    | 100   | 125   | 150   | 200   |
|-------------|-------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Size        |                               |      |      |       |       |       |       |       |       |       |
|             | <b>L1<sup>1)</sup></b>        |      |      |       |       |       |       |       |       |       |
| 6           | 48                            | 58   | 68   | 78    | 95    | –     | –     | –     | –     | –     |
| 8           | 51                            | 61   | 71   | 81    | 95    | 126   | –     | –     | –     | –     |
| 10          | 66                            | 68   | 78   | 88    | 98    | 136   | 156   | –     | –     | –     |
| 12          | 66                            | 76   | 86   | 96    | 106   | 136   | 169.5 | –     | –     | –     |
| 16          | 73                            | 80   | 87   | 97    | 112   | 150   | 170   | 210   | 235   | –     |
| 20          | 97                            | 97   | 97   | 107   | 121   | 166   | 204.5 | 244   | 279   | 343   |
| 25          | 102                           | 102  | 108  | 118   | 128   | 168   | 207   | 246   | 281   | 345   |
|             | <b>L11</b>                    |      |      |       |       |       |       |       |       |       |
| 6           | 40                            | 50   | 60   | 70    | 87    | –     | –     | –     | –     | –     |
| 8           | 43                            | 53   | 63   | 73    | 87    | 118   | –     | –     | –     | –     |
| 10          | 56                            | 58   | 68   | 78    | 88    | 126   | 146   | –     | –     | –     |
| 12          | 56                            | 66   | 76   | 86    | 96    | 126   | 159.5 | –     | –     | –     |
| 16          | 61                            | 68   | 75   | 85    | 100   | 138   | 158   | 198   | 223   | –     |
| 20          | 84.5                          | 84.5 | 84.5 | 94.5  | 108.5 | 153.5 | 192   | 231.5 | 266.5 | 330.5 |
| 25          | 87.5                          | 87.5 | 93.5 | 103.5 | 113.5 | 153.5 | 192.5 | 231.5 | 266.5 | 330.5 |
|             | <b>L12</b>                    |      |      |       |       |       |       |       |       |       |
| 6           | 16                            | 16   | 16   | 16    | 22    | –     | –     | –     | –     | –     |
| 8           | 15.7                          | 15.7 | 15.7 | 15.7  | 19.7  | 20.7  | –     | –     | –     | –     |
| 10          | 24.6                          | 16.6 | 16.6 | 16.6  | 16.6  | 24.6  | 24.6  | –     | –     | –     |
| 12          | 20.6                          | 20.6 | 20.6 | 20.6  | 20.6  | 20.6  | 34.1  | –     | –     | –     |
| 16          | 21.2                          | 18.2 | 15.2 | 15.2  | 20.2  | 28.2  | 28.2  | 39    | 39    | –     |
| 20          | 39.5                          | 29.5 | 19.5 | 19.5  | 23.5  | 38.5  | 51    | 51    | 51    | 51    |
| 25          | 36.5                          | 26.5 | 22.5 | 22.5  | 22.5  | 32.5  | 51.5  | 65    | 65    | 65    |
|             | <b>T6 (max.)<sup>3)</sup></b> |      |      |       |       |       |       |       |       |       |
| 6           | 4                             | 4    | 4    | 4     | 4     | –     | –     | –     | –     | –     |
| 8           | 5.5                           | 5.5  | 5.5  | 5.5   | 5.5   | 5.5   | –     | –     | –     | –     |
| 10          | 4.5                           | 4.5  | 4.5  | 4.5   | 4.5   | 7.5   | 7.5   | –     | –     | –     |
| 12          | 5.2                           | 5.2  | 5.2  | 5.2   | 5.2   | 8     | 8     | –     | –     | –     |
| 16          | 7.2                           | 7.2  | 7.2  | 7.2   | 7.2   | 8     | 8     | 8     | 8     | –     |
| 20          | 8                             | 8    | 8    | 8     | 8     | 8     | 8     | 8     | 8     | 8     |
| 25          | 11                            | 11   | 11   | 11    | 11    | 11    | 11    | 11    | 11    | 11    |

1) At an operating pressure of 6 bar for variant E1. For the other cushioning variants, LD1 applies → page 38 ff.

2) Not available in sizes 6 and 8 with stroke 10 mm. For size 16 with stroke 80 ... 150 mm, the dimension is 14.5 mm

3) Max. screw-in depth

Datasheet

Dimensions

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

[L] Mirror-imaged

Technical drawings of the Mini slide DGST in mirror-imaged configuration. The drawings include a side view with dimension L1, a top view with dimensions T4, G2, EE, T5, and callout [1], a front view with dimensions H5, H4, L8, L7, L10, L9, H7, and callouts [1], and a detail view of the end profile. A note explains the mirror-inverted version's port placement.

+ = plus stroke length

[1] Supply ports

Note

In the mirror-inverted version, the supply ports and sensor slots are located on the opposite side when compared with the standard version. This enables the space-saving mounting of the mini-slides next to one another.

All further dimensions are identical to the standard version → page 18

## Datasheet

| Size | EE   | G2 | H4  | H5   | H7   | L7   | L8 <sup>2)</sup> | L9   | L10 <sup>2)</sup> | T4 <sup>3)</sup><br>max. | T5 <sup>3)</sup><br>max. | T11 |
|------|------|----|-----|------|------|------|------------------|------|-------------------|--------------------------|--------------------------|-----|
| 6    | M3   | M3 | 2.5 | 7    | 4.5  | 8.5  | 15.4             | 5.8  | 12.7              | 4                        | 4                        | 4.6 |
| 8    | M5   | M3 | 3.1 | 8.1  | 5.6  | 8.5  | 16.5             | 5.5  | 13.5              | 5                        | 4.5                      | 5   |
| 10   | M5   | M4 | 4   | 10   | 7    | 8.9  | 17.9             | 6.6  | 15.6              | 6.2                      | 5                        | 5.9 |
| 12   | M5   | M4 | 5.9 | 11.9 | 8.9  | 10.7 | 19.5             | 7    | 15.8              | 7                        | 5.5                      | 7   |
| 16   | M5   | M4 | 5.8 | 14.8 | 10.3 | 14.2 | 23               | 6.7  | 15.5              | 6                        | 5                        | 6.3 |
| 20   | G1/8 | M5 | 8.7 | 17.7 | 13.2 | 16.5 | 30.5             | 8    | 22                | 8                        | 8.5                      | 9.1 |
| 25   | G1/8 | M6 | 11  | 21   | 16   | 16.5 | 31.5             | 10.5 | 25.5              | 9.5                      | 8                        | 8.8 |

| Stroke [mm] | 10               | 20  | 30  | 40  | 50  | 80  | 100   | 125 | 150 | 200 |
|-------------|------------------|-----|-----|-----|-----|-----|-------|-----|-----|-----|
| Size        |                  |     |     |     |     |     |       |     |     |     |
|             | L1 <sup>1)</sup> |     |     |     |     |     |       |     |     |     |
| 6           | 48               | 58  | 68  | 78  | 95  | –   | –     | –   | –   | –   |
| 8           | 51               | 61  | 71  | 81  | 95  | 126 | –     | –   | –   | –   |
| 10          | 66               | 68  | 78  | 88  | 98  | 136 | 156   | –   | –   | –   |
| 12          | 66               | 76  | 86  | 96  | 106 | 136 | 169.5 | –   | –   | –   |
| 16          | 73               | 80  | 87  | 97  | 112 | 150 | 170   | 210 | 235 | –   |
| 20          | 97               | 97  | 97  | 107 | 121 | 166 | 204.5 | 244 | 279 | 343 |
| 25          | 102              | 102 | 108 | 118 | 128 | 168 | 207   | 246 | 281 | 345 |

1) At an operating pressure of 6 bar

2) Not available in sizes 6 and 8 with stroke 10 mm. For size 16 with stroke 80 ... 150 mm, the dimension is 14.5 mm

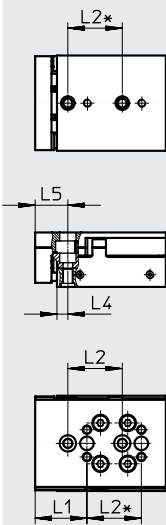
3) Max. screw-in depth

Datasheet

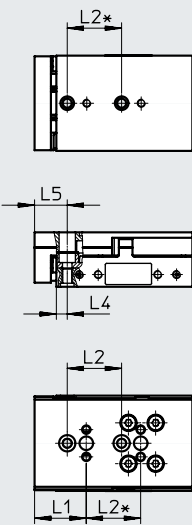
Hole pattern for mounting threads and centring holes

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

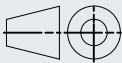
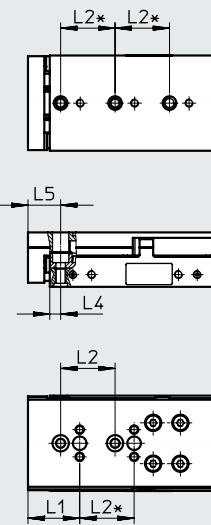
DGST-6-10



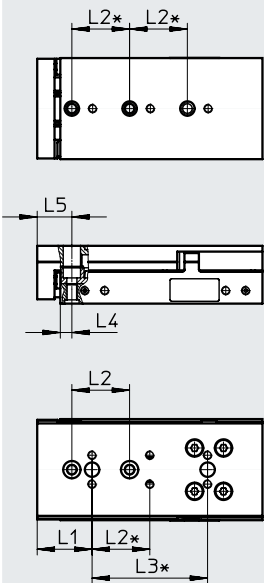
DGST-6-20



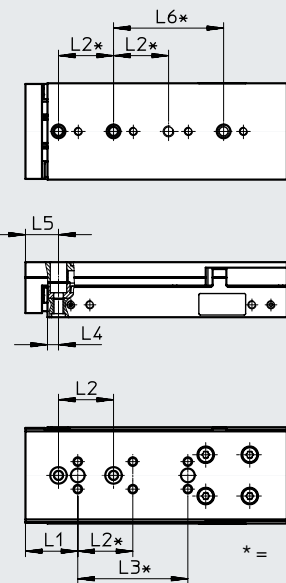
DGST-6-30



DGST-6-40



DGST-6-50



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



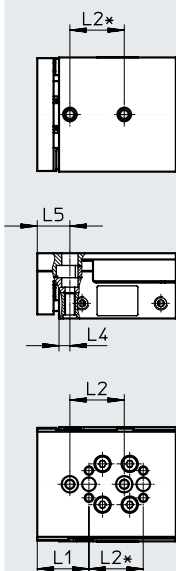
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4 | L5 | L6 |
|------|----------------|----|----|----|----|----|----|
| 6    | 10             | 19 | 20 | –  | 4  | 12 | –  |
|      | 20             |    |    | –  |    |    | –  |
|      | 30             |    |    | –  |    |    | –  |
|      | 40             |    |    | 40 |    |    | –  |
|      | 50             |    |    | 40 |    |    | 40 |

## Datasheet

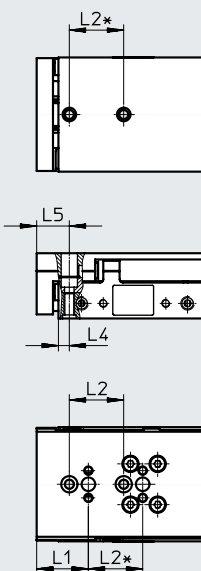
## Hole pattern for mounting threads and centring holes

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

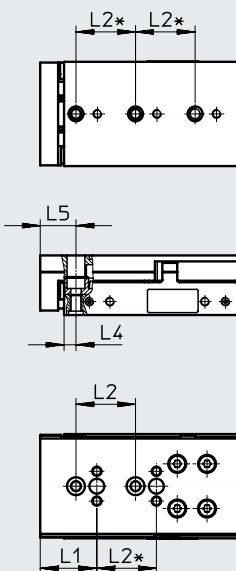
DGST-8-10



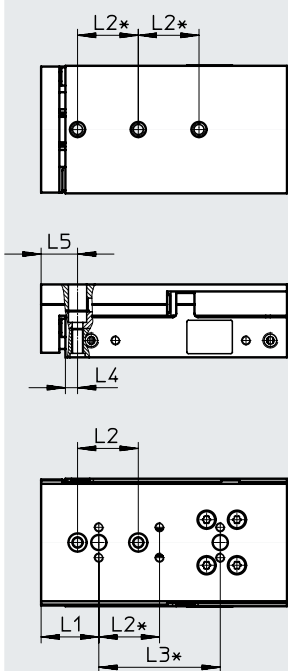
DGST-8-20



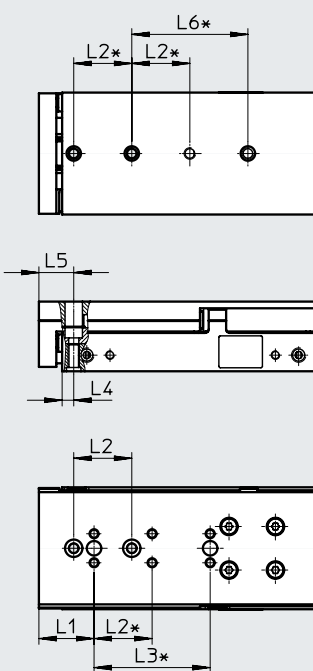
DGST-8-30



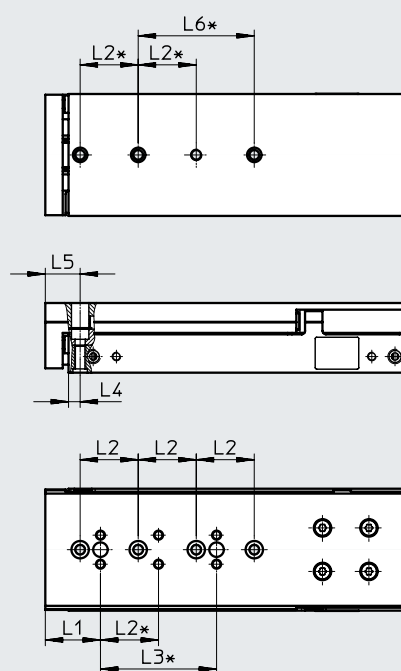
DGST-8-40



DGST-8-50



DGST-8-80



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4 | L5 | L6 |
|------|----------------|----|----|----|----|----|----|
| 8    | 10             | 19 | 20 | –  | 4  | 12 | –  |
|      | 20             |    |    | –  |    |    | –  |
|      | 30             |    |    | –  |    |    | –  |
|      | 40             |    |    | 40 |    |    | –  |
|      | 50             |    |    | 40 |    |    | 40 |
|      | 80             |    |    | 40 |    |    | 40 |

Datasheet

Hole pattern for mounting threads and centring holes

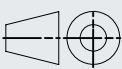
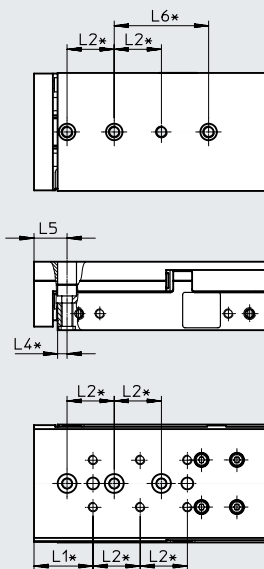
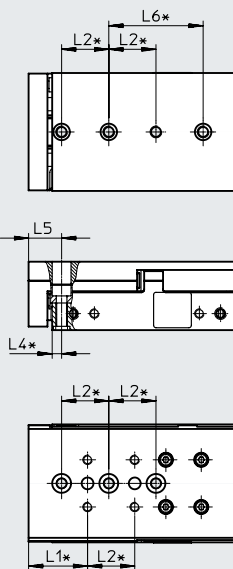
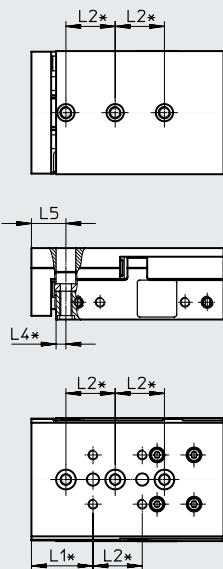
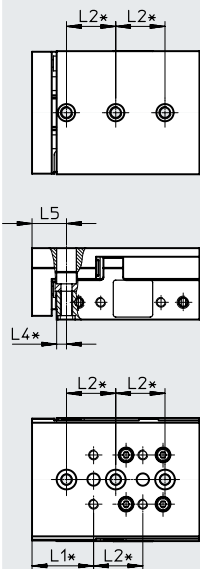
Download CAD data → [www.festo.com](http://www.festo.com)

DGST-10-10/20

DGST-10-30

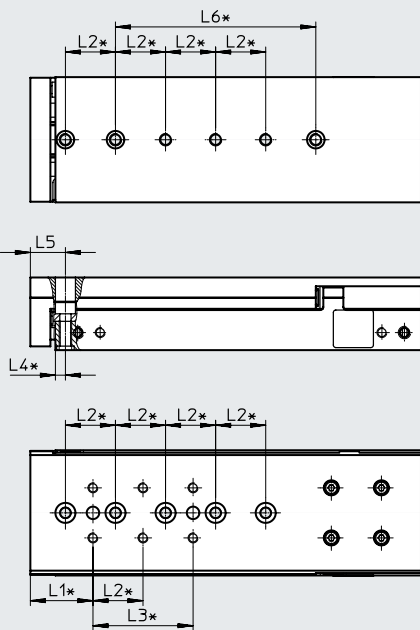
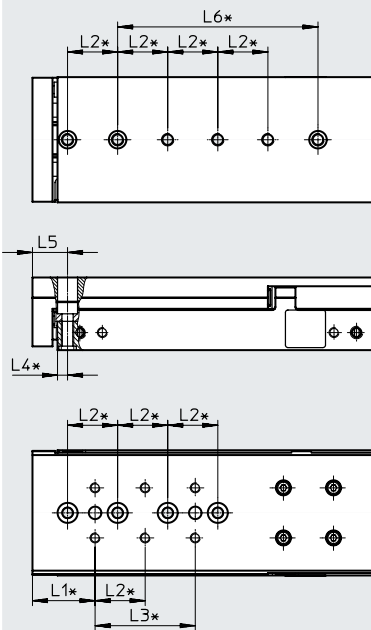
DGST-10-40

DGST-10-50



DGST-10-80

DGST-10-100



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



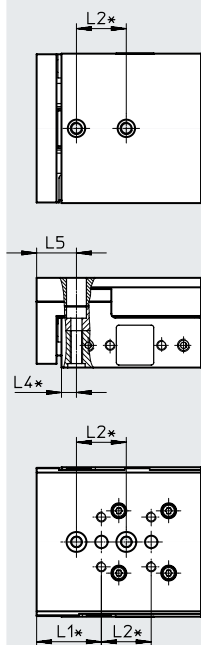
| Size | Stroke [mm] | L1 | L2 | L3 | L4 | L5 | L6 |
|------|-------------|----|----|----|----|----|----|
| 10   | 10, 20      | 25 | 20 | —  | 4  | 14 | —  |
|      | 30          |    |    | —  |    |    | —  |
|      | 40, 50      |    |    | —  |    |    | 40 |
|      | 80          |    |    | 40 |    |    | 80 |
|      | 100         |    |    | 40 |    |    | 80 |

## Datasheet

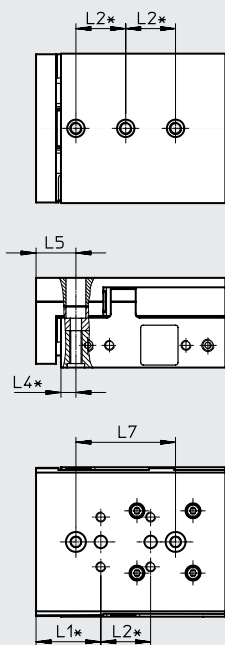
## Hole pattern for mounting threads and centring holes

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

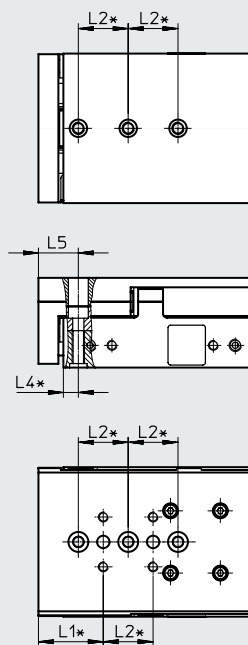
DGST-12-10



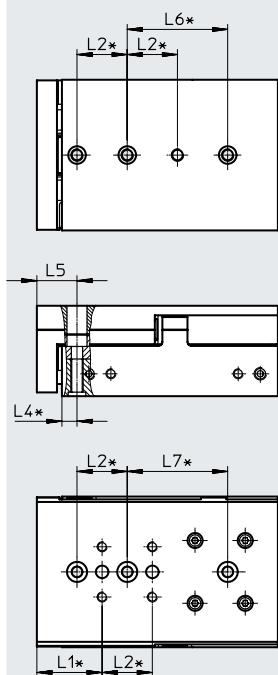
DGST-12-20



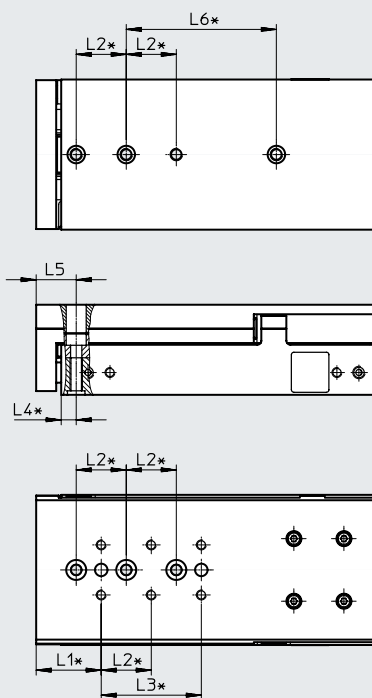
DGST-12-30



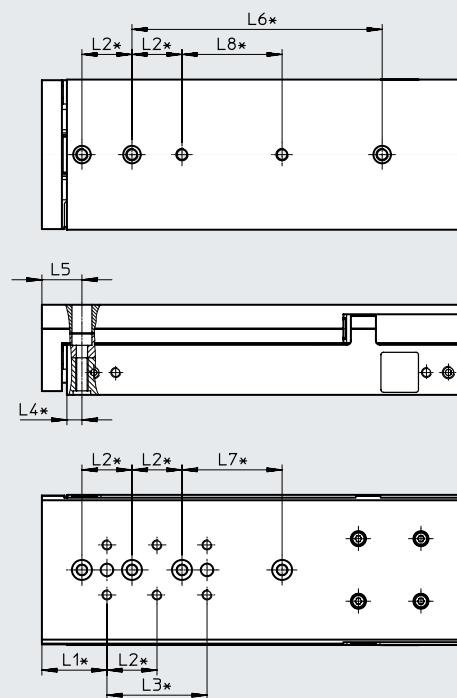
DGST-12-40



DGST-12-50/80



DGST-12-100



\* = ±0.02 mm applies to the centring  
 = ±0.1 mm applies to the thread



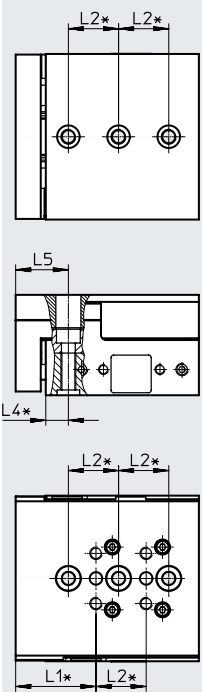
| Size | Stroke [mm] | L1 | L2 | L3 | L4 | L5 | L6     | L7 | L8 |
|------|-------------|----|----|----|----|----|--------|----|----|
| 12   | 10          | 26 | 20 | —  | 6  | 16 | —      | —  | —  |
|      | 20          |    |    | —  |    |    | —      | 40 | —  |
|      | 30          |    |    | —  |    |    | —      | —  | —  |
|      | 40          |    |    | —  |    |    | 40     | 40 | —  |
|      | 50, 80      |    |    | 40 |    |    | 40, 60 | —  | —  |
|      | 100         |    |    | 40 |    |    | 100    | 40 | 40 |

Datasheet

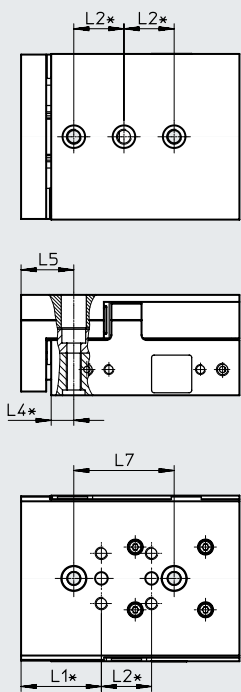
**Hole pattern for mounting threads and centring holes**

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

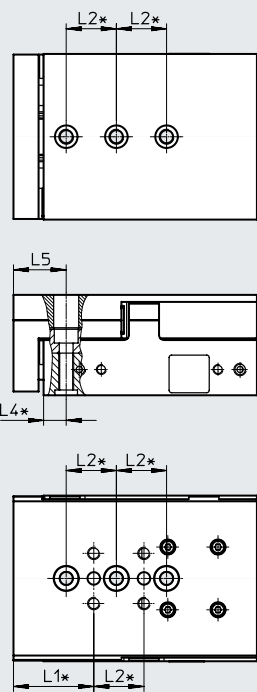
DGST-16-10



DGST-16-20/30



DGST-16-40



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



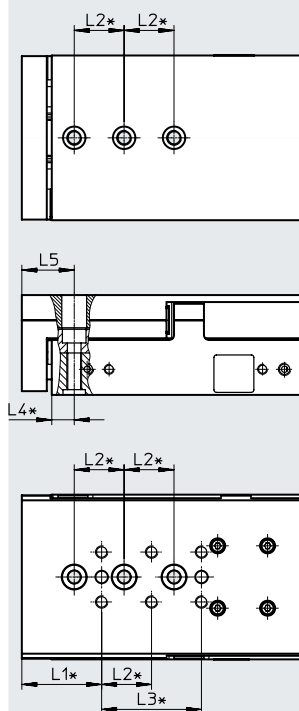
| Size | Stroke<br>[mm] | L1 | L2 | L4 | L5 | L7 |
|------|----------------|----|----|----|----|----|
| 16   | 10             | 32 | 20 | 9  | 21 | –  |
|      | 20             |    |    |    |    | 40 |
|      | 30             |    |    |    |    | 40 |
|      | 40             |    |    |    |    | –  |

## Datasheet

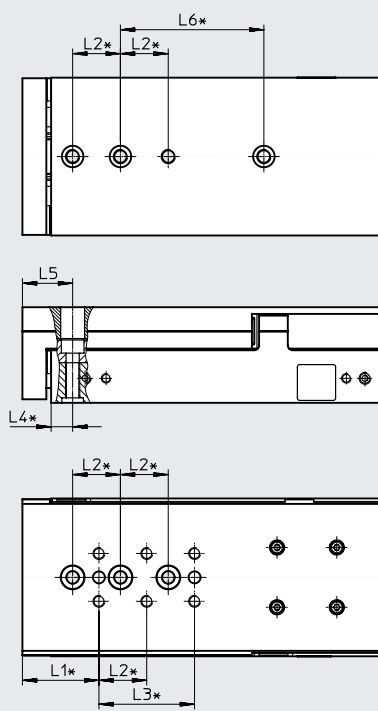
## Hole pattern for mounting threads and centring holes

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

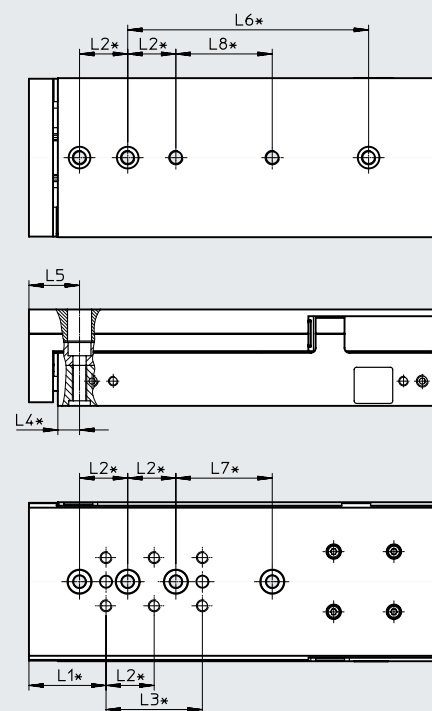
DGST-16-50



DGST-16-80



DGST-16-100



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4 | L5 | L6  | L7 | L8 |
|------|----------------|----|----|----|----|----|-----|----|----|
| 16   | 50             | 32 | 20 | 40 | 9  | 21 | —   | —  | —  |
|      | 80             |    |    |    |    |    | 60  | —  | —  |
|      | 100            |    |    |    |    |    | 100 | 40 | 40 |

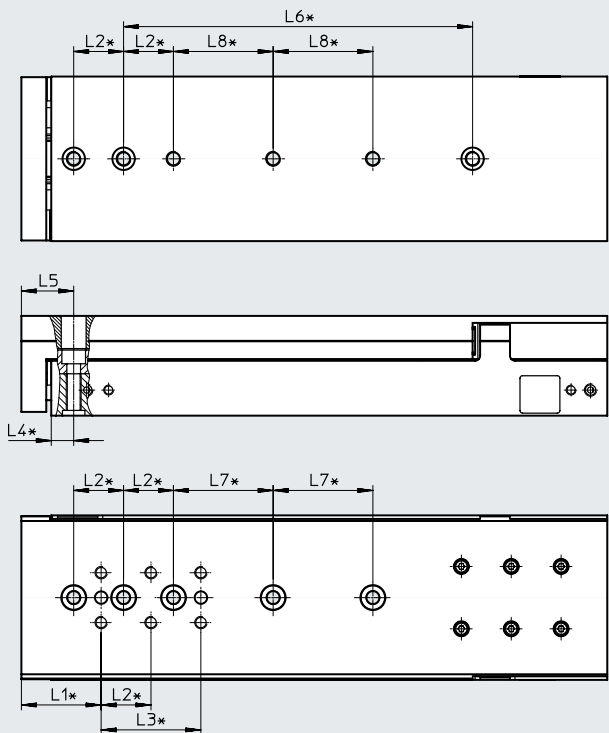
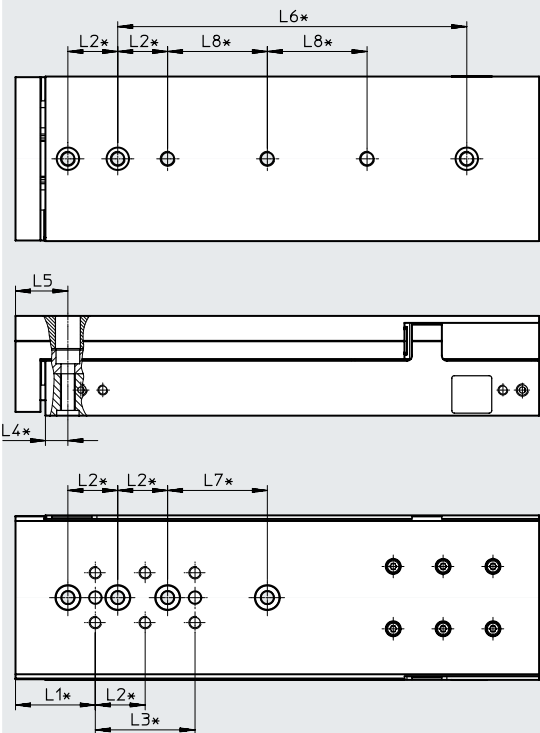
Datasheet

Hole pattern for mounting threads and centring holes

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

DGST-16-125

DGST-16-150



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4 | L5 | L6  | L7 | L8 |
|------|----------------|----|----|----|----|----|-----|----|----|
| 16   | 125            | 32 | 20 | 40 | 9  | 21 | 140 | 40 | 40 |
|      | 150            |    |    |    |    |    |     |    |    |

## Datasheet

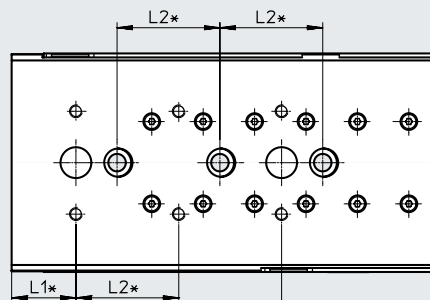
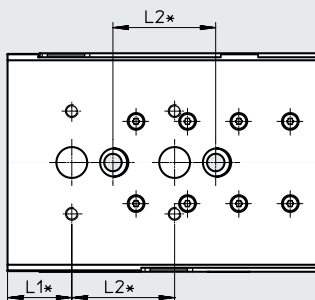
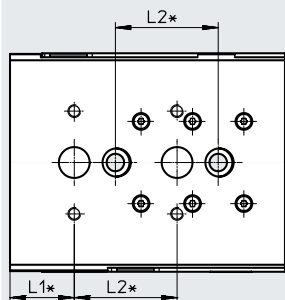
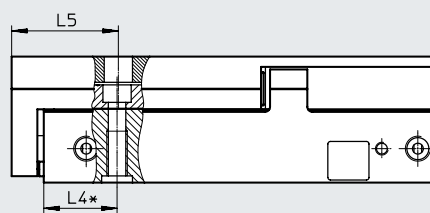
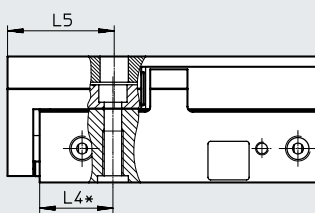
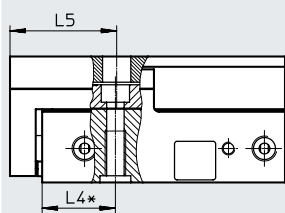
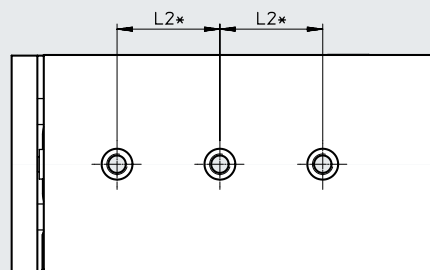
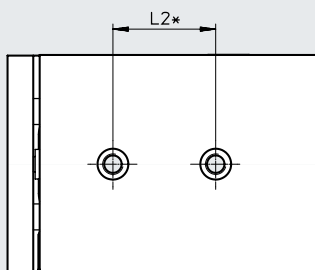
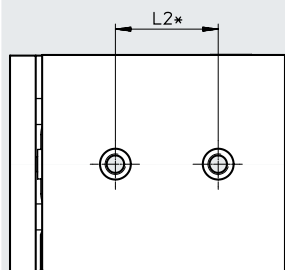
## Hole pattern for mounting threads and centring holes

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DGST-20-10/20/30/40

DGST-20-50

DGST-20-80



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



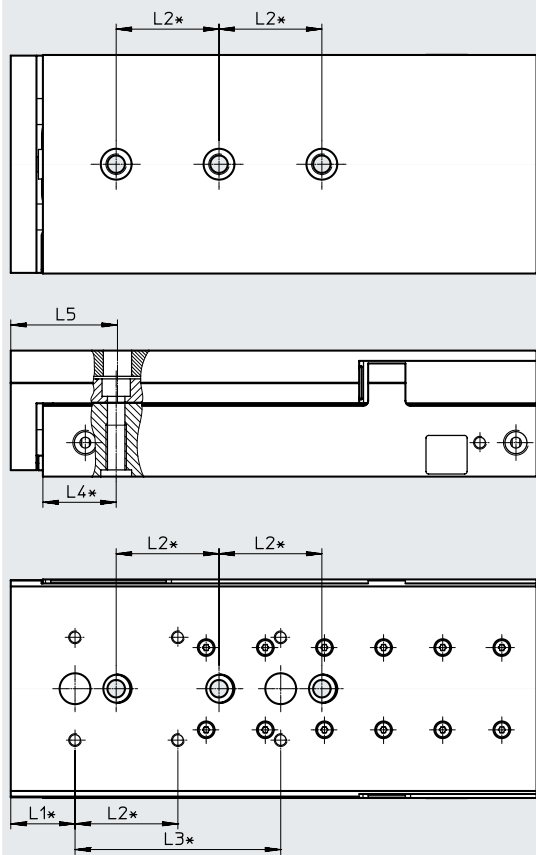
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   |
|------|----------------|----|----|----|------|------|
| 20   | 10             | 25 | 40 | —  | 28.5 | 41.5 |
|      | 20             |    |    | —  |      |      |
|      | 30             |    |    | —  |      |      |
|      | 40             |    |    | —  |      |      |
|      | 50             |    |    | —  |      |      |
|      | 80             |    |    | 80 |      |      |

Datasheet

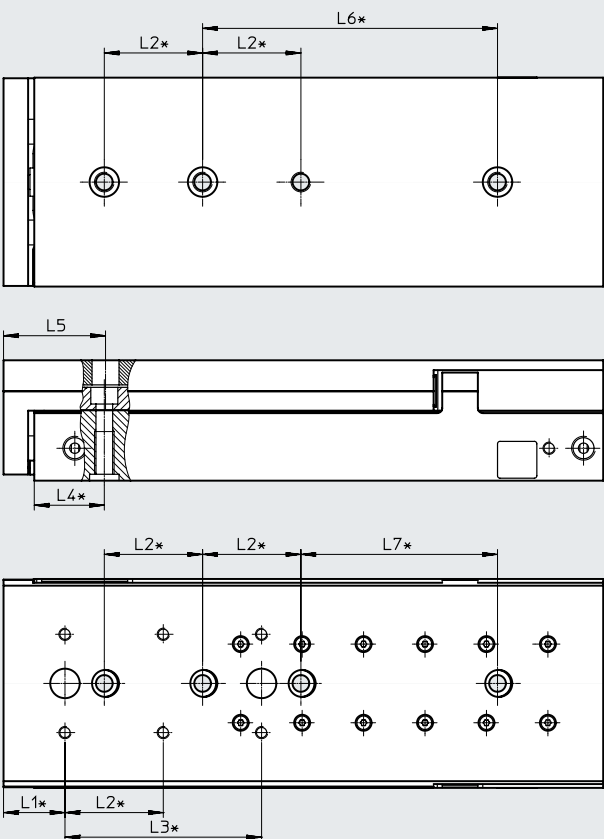
Hole pattern for mounting threads and centring holes

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

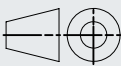
DGST-20-100



DGST-20-125



\* =  $\pm 0.02$  mm applies to the centring  
=  $\pm 0.1$  mm applies to the thread



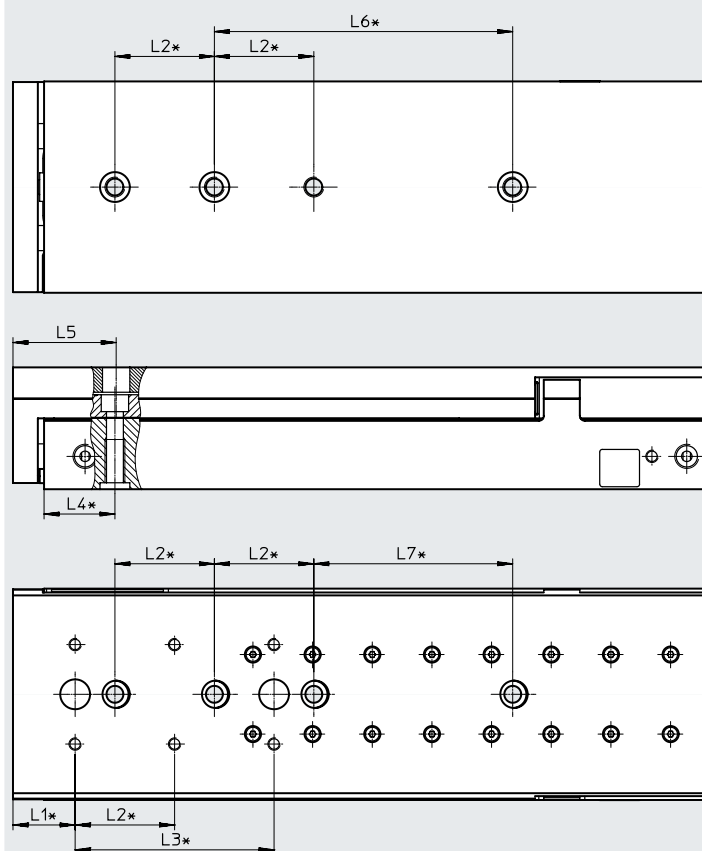
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 |
|------|----------------|----|----|----|------|------|-----|----|
| 20   | 100            | 25 | 40 | 80 | 28.5 | 41.5 | –   | 80 |
|      | 125            |    |    |    |      |      | 120 |    |

## Datasheet

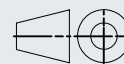
## Hole pattern for mounting threads and centring holes

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

DGST-20-150



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



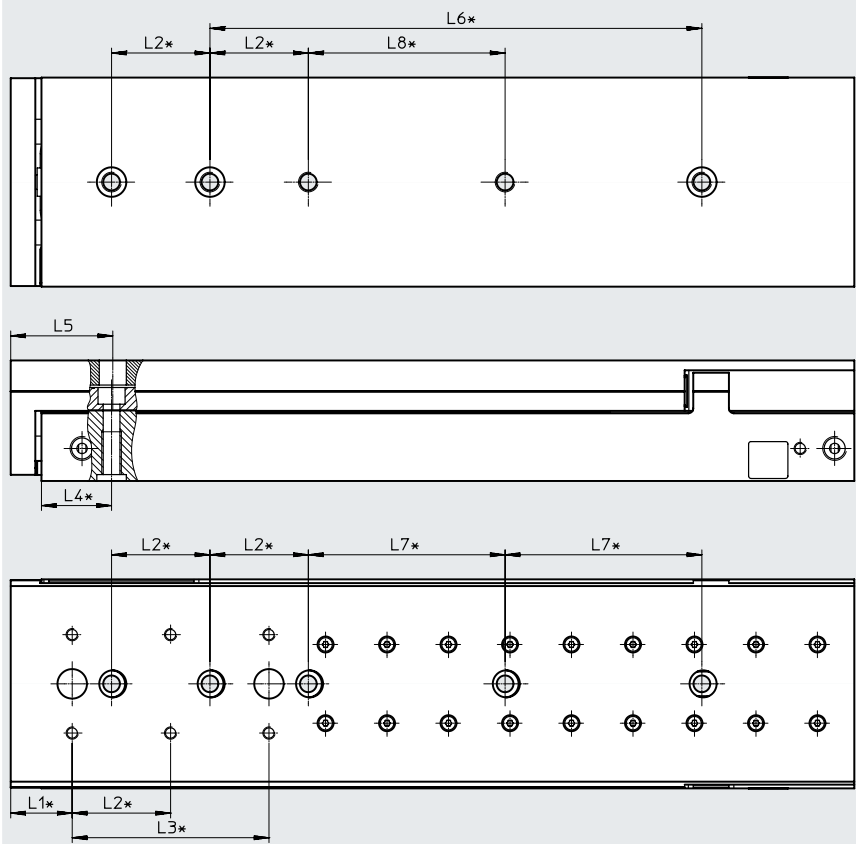
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 |
|------|----------------|----|----|----|------|------|-----|----|
| 20   | 150            | 25 | 40 | 80 | 28.5 | 41.5 | 120 | 80 |

Datasheet

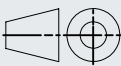
Hole pattern for mounting threads and centring holes

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

DGST-20-200



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 | L8 |
|------|----------------|----|----|----|------|------|-----|----|----|
| 20   | 200            | 25 | 40 | 80 | 28.5 | 41.5 | 200 | 80 | 80 |

## Datasheet

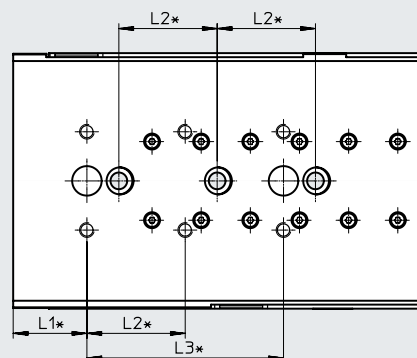
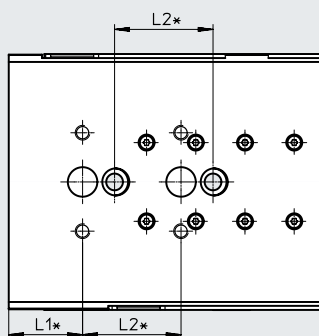
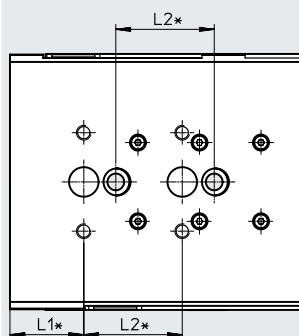
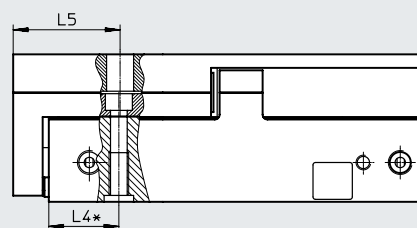
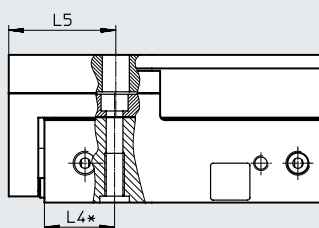
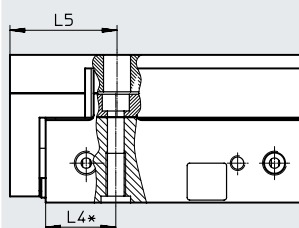
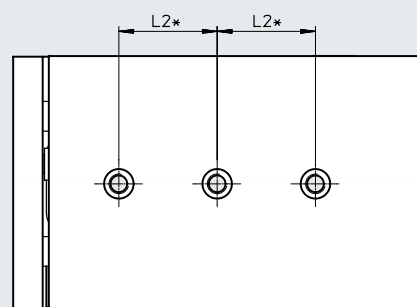
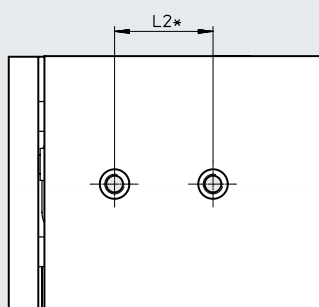
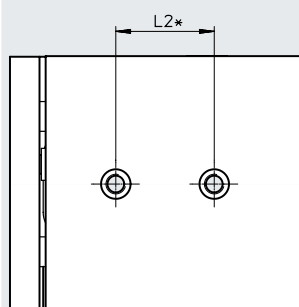
## Hole pattern for mounting threads and centring holes

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DGST-25-10/20/30/40

DGST-25-50

DGST-25-80

\* =  $\pm 0.02$  mm applies to the centring=  $\pm 0.1$  mm applies to the thread

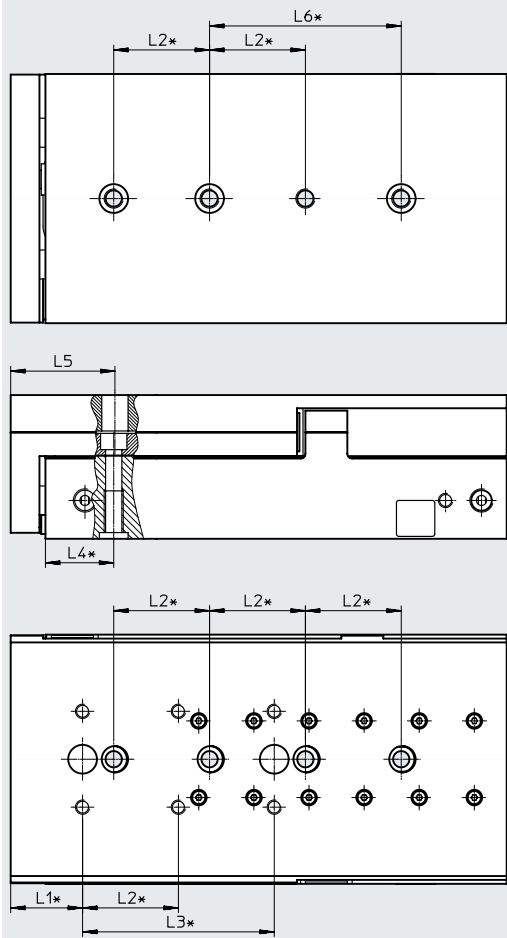
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   |
|------|----------------|----|----|----|------|------|
| 25   | 10             | 30 | 40 | –  | 28.5 | 43.5 |
|      | 20             |    |    | –  |      |      |
|      | 30             |    |    | –  |      |      |
|      | 40             |    |    | –  |      |      |
|      | 50             |    |    | –  |      |      |
|      | 80             |    |    | 80 |      |      |

Datasheet

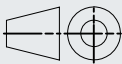
Hole pattern for mounting threads and centring holes

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

DGST-25-100



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



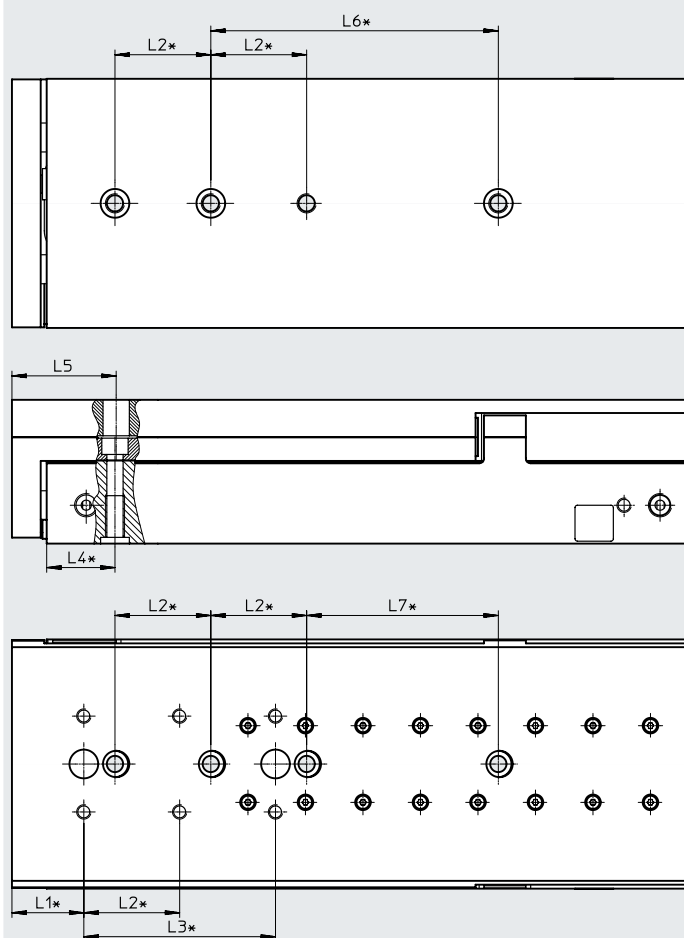
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6 | L7 |
|------|----------------|----|----|----|------|------|----|----|
| 25   | 100            | 30 | 40 | 80 | 28.5 | 43.5 | 80 | 80 |

## Datasheet

## Hole pattern for mounting threads and centring holes

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

DGST-25-125



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



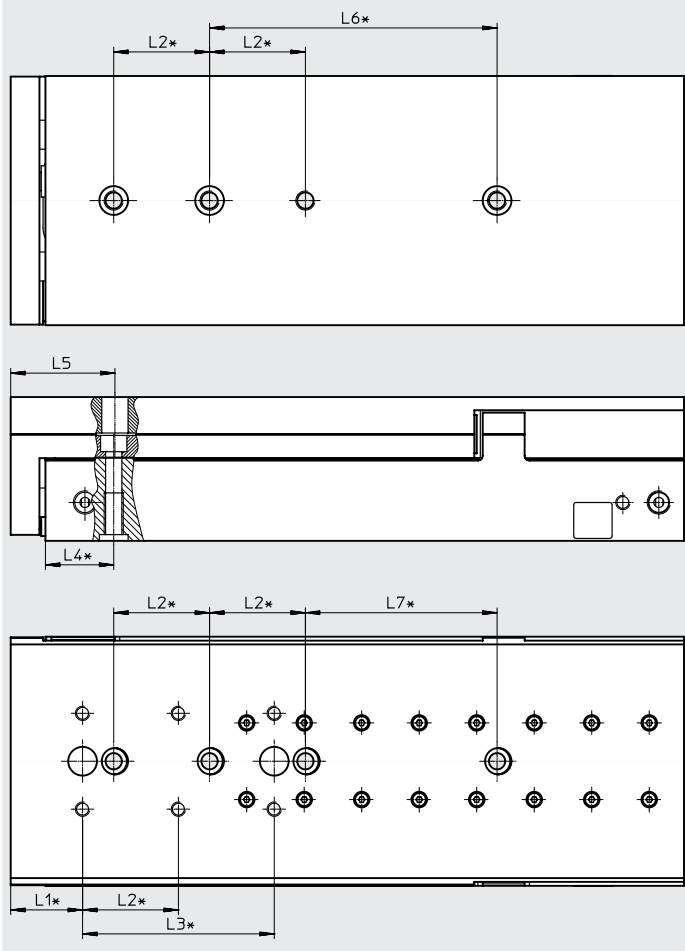
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 |
|------|----------------|----|----|----|------|------|-----|----|
| 25   | 125            | 30 | 40 | 80 | 28.5 | 43.5 | 120 | 80 |

Datasheet

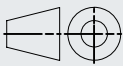
Hole pattern for mounting threads and centring holes

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

DGST-25-150



\* = ±0.02 mm applies to the centring  
= ±0.1 mm applies to the thread



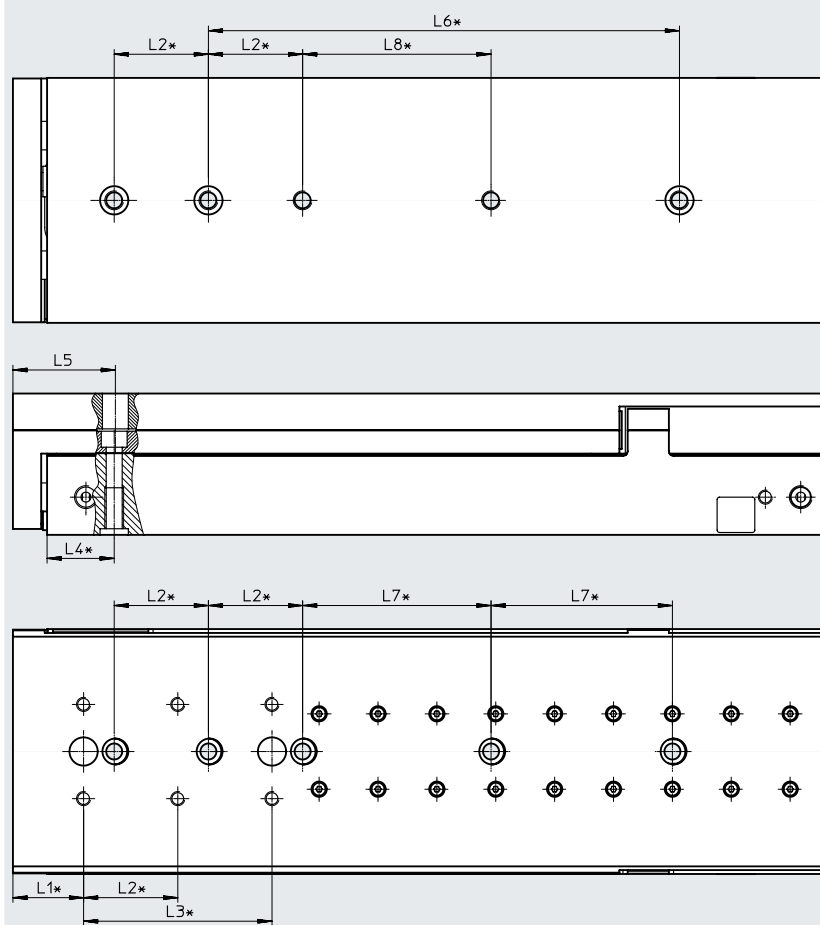
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 |
|------|----------------|----|----|----|------|------|-----|----|
| 25   | 150            | 30 | 40 | 80 | 28.5 | 43.5 | 120 | 80 |

## Datasheet

## Hole pattern for mounting threads and centring holes

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

DGST-25-200



\* =  $\pm 0.02$  mm applies to the centring  
 =  $\pm 0.1$  mm applies to the thread



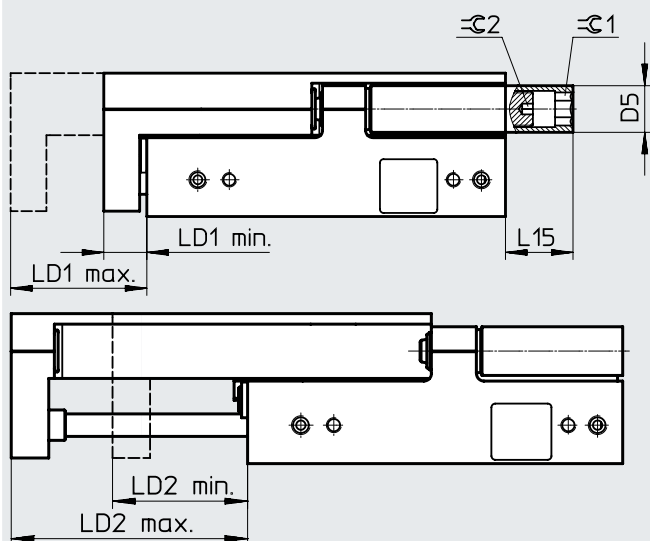
| Size | Stroke<br>[mm] | L1 | L2 | L3 | L4   | L5   | L6  | L7 | L8 |
|------|----------------|----|----|----|------|------|-----|----|----|
| 25   | 200            | 30 | 40 | 80 | 28.5 | 43.5 | 200 | 80 | 80 |

## Datasheet

## Dimensions

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

DGST...-P: Setting dimension and projection in the end positions



-  **Note**

Adjust and secure the cushioning components under pressure.

| Size | Stroke | D5<br>∅ | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |      | L15  | ≅ 1 | ≅ 2 |
|------|--------|---------|-------------------------------|------|------|------------------------------|-------|------|------|-----|-----|
|      | [mm]   |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min. |      |     |     |
| 6    | 10     | 6       | 10.4                          | 8.6  | 19   | 10.4                         | 19    | 8.6  | 6    | 3   | 1.5 |
|      | 20     |         | 11.6                          |      | 20.2 | 13.1                         | 29    | 15.9 |      |     |     |
|      | 30     |         |                               |      |      |                              | 39    | 25.9 |      |     |     |
|      | 40     |         |                               |      |      |                              | 49    | 35.9 |      |     |     |
|      | 50     |         |                               |      |      |                              | 59    | 45.9 | 0    |     |     |
| 8    | 10     | 7       | 10                            | 9.1  | 19.1 | 10                           | 19.1  | 9.1  | 14.8 | 4   | 1.5 |
|      | 20     |         | 14.4                          |      | 23.5 | 16.3                         | 29.1  | 12.8 |      |     |     |
|      | 30     |         |                               |      |      |                              | 39.1  | 22.8 |      |     |     |
|      | 40     |         |                               |      |      |                              | 49.1  | 32.8 |      |     |     |
|      | 50     |         |                               |      |      |                              | 59.1  | 42.8 | 10.8 |     |     |
|      | 80     |         |                               |      |      |                              | 89.1  | 72.8 | 9.8  |     |     |
| 10   | 10     | 8       | 10                            | 11.1 | 21.1 | 10                           | 21.1  | 11.1 | 6.4  | 5   | 2   |
|      | 20     |         | 15.1                          |      | 26.2 | 16.7                         | 31.1  | 14.4 | 13.9 |     |     |
|      | 30     |         |                               |      |      |                              | 41.1  | 24.4 |      |     |     |
|      | 40     |         |                               |      |      |                              | 51.1  | 34.4 |      |     |     |
|      | 50     |         |                               |      |      |                              | 61.1  | 44.4 |      |     |     |
|      | 80     |         |                               |      |      |                              | 91.1  | 74.4 | 5.9  |     |     |
|      | 100    |         |                               |      |      |                              | 111.1 | 94.4 |      |     |     |
|      | 12     |         |                               |      |      |                              | 10    | 10   | 10.1 |     |     |
| 20   |        | 20.1    | 31                            | 20.1 | 31   | 10.9                         |       |      |      |     |     |
| 30   |        | 20.8    | 31.7                          | 22.1 | 41   | 18.9                         |       |      |      |     |     |
| 40   |        |         |                               |      | 51   | 28.9                         |       |      |      |     |     |
| 50   |        |         |                               |      | 61   | 38.9                         |       |      |      |     |     |
| 80   |        |         |                               |      | 91   | 68.9                         |       |      |      |     |     |
| 100  |        |         |                               |      | 111  | 88.9                         | 1.9   |      |      |     |     |

## Datasheet

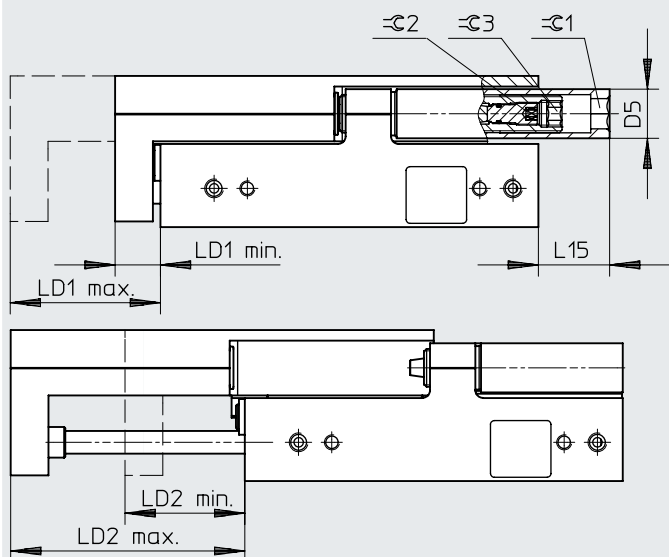
| Size | Stroke<br><br>[mm] | D5<br>∅ | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |       | L15   | ≈ 1  | ≈ 2  |
|------|--------------------|---------|-------------------------------|------|------|------------------------------|-------|-------|-------|------|------|
|      |                    |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min.  |       |      |      |
| 16   | 10                 | 13      | 10.3                          | 12.7 | 23   | 10.3                         | 23    | 12.7  | 17.85 | 8    | 3    |
|      | 20                 |         | 20.3                          |      | 33   | 20.3                         | 33    | 12.7  | 20.85 |      |      |
|      | 30                 |         | 21.5                          |      | 34.2 | 22.8                         | 43    | 20.2  | 23.85 |      |      |
|      | 40                 |         |                               |      |      |                              | 53    | 30.2  |       |      |      |
|      | 50                 |         |                               |      |      |                              | 63    | 40.2  | 18.85 |      |      |
|      | 80                 |         |                               |      |      |                              | 93    | 70.2  | 10.85 |      |      |
|      | 100                |         |                               |      |      |                              | 113   | 90.2  |       |      |      |
|      | 125                |         |                               |      |      |                              | 138   | 115.2 | 0     |      |      |
|      | 150                |         |                               |      |      |                              | 163   | 140.2 |       |      |      |
| 20   | 10                 | 15      | 10.1                          | 13.1 | 23.2 | 10.1                         | 23.2  | 13.1  | 11.5  | 10   | 4    |
|      | 20                 |         | 20.1                          |      | 33.2 | 20.1                         | 33.2  | 13.1  | 21.5  |      |      |
|      | 30                 |         | 30.1                          |      | 43.2 | 30.1                         | 43.2  | 13.1  | 31.5  |      |      |
|      | 40                 |         | 31.1                          |      | 44.2 | 32.9                         | 53.2  | 20.3  |       |      |      |
|      | 50                 |         |                               |      |      |                              | 63.2  | 30.3  | 27.5  |      |      |
|      | 80                 |         |                               |      |      |                              | 93.2  | 60.3  | 12.5  |      |      |
|      | 100                |         |                               |      |      |                              | 113.2 | 80.3  | 0     |      |      |
|      | 125                |         |                               |      |      |                              | 138.2 | 105.3 |       |      |      |
|      | 150                |         |                               |      |      |                              | 163.2 | 130.3 |       |      |      |
|      | 200                |         |                               |      |      |                              | 213.2 | 180.3 |       |      |      |
| 25   | 10                 | 18      |                               | 10.2 |      |                              | 15.3  | 25.5  |       | 10.2 | 25.5 |
|      | 20                 |         | 20.2                          | 35.5 | 20.2 | 35.5                         |       | 15.3  | 38.5  |      |      |
|      | 30                 |         | 30.2                          | 45.5 | 30.2 | 45.5                         |       | 15.3  | 42.5  |      |      |
|      | 40                 |         | 40.2                          | 55.5 | 40.2 | 55.5                         |       | 15.3  |       |      |      |
|      | 50                 |         | 45.4                          | 60.7 | 47   | 65.5                         |       | 18.5  | 32.5  |      |      |
|      | 80                 |         |                               |      |      | 95.5                         |       | 48.5  |       |      |      |
|      | 100                |         |                               |      |      | 115.5                        |       | 68.5  | 13.5  |      |      |
|      | 125                |         |                               |      |      | 140.5                        |       | 93.5  | 0     |      |      |
|      | 150                |         |                               |      |      | 165.5                        |       | 118.5 |       |      |      |
|      | 200                |         |                               |      |      | 215.5                        |       | 168.5 |       |      |      |

## Datasheet

## Dimensions

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DGST...-P1: Setting dimension and projection in the end positions



**Note**

Adjust and secure the cushioning components under pressure.

| Size | Stroke | D5<br>∅ | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |      | L15  | ⌀ 1 | ⌀ 2 | ⌀ 3 |      |
|------|--------|---------|-------------------------------|------|------|------------------------------|-------|------|------|-----|-----|-----|------|
|      | [mm]   |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min. |      |     |     |     |      |
| 6    | 10     | 6       | 9.9                           | 8.6  | 18.5 | 10.35                        | 19    | 8.6  | 6    | 3   | 1.5 | 2.5 |      |
|      | 20     |         |                               |      |      | 11.45                        | 29    | 17.5 |      |     |     |     |      |
|      | 30     |         |                               |      |      |                              | 39    | 27.5 |      |     |     |     |      |
|      | 40     |         |                               |      |      |                              | 49    | 37.5 |      |     |     |     |      |
|      | 50     |         |                               |      |      |                              | 59    | 47.5 |      |     |     |     | 0    |
| 8    | 10     | 7       | 12.3                          | 8.7  | 21   | 10.1                         | 18.8  | 8.7  | 14.8 | 4   | 1.5 | 3   |      |
|      | 20     |         |                               |      |      | 13.5                         | 28.8  | 15.3 |      |     |     |     |      |
|      | 30     |         |                               |      |      |                              | 38.8  | 25.3 |      |     |     |     |      |
|      | 40     |         |                               |      |      |                              | 48.8  | 35.3 |      |     |     |     |      |
|      | 50     |         |                               |      |      |                              | 58.8  | 45.3 |      |     |     |     | 10.8 |
|      | 80     |         |                               |      |      |                              | 88.8  | 75.3 |      |     |     |     | 9.8  |
| 10   | 10     | 8       | 13.3                          | 10.7 | 24   | 10.1                         | 20.8  | 10.7 | 6.4  | 5   | 2   | 4   |      |
|      | 20     |         |                               |      |      | 14.4                         | 30.8  | 16.4 | 14.4 |     |     |     |      |
|      | 30     |         |                               |      |      |                              | 40.8  | 26.4 |      |     |     |     |      |
|      | 40     |         |                               |      |      |                              | 50.8  | 36.4 |      |     |     |     |      |
|      | 50     |         |                               |      |      |                              | 60.8  | 46.4 |      |     |     |     |      |
|      | 80     |         |                               |      |      |                              | 90.8  | 76.4 |      |     |     |     |      |
|      | 100    |         |                               |      |      |                              | 110.8 | 96.4 |      |     |     |     | 6.4  |
|      | 12     |         |                               |      |      | 10                           | 10    | 17.4 | 10.6 |     |     |     | 28   |
| 20   |        | 18.4    | 30.8                          | 12.4 |      |                              |       |      |      |     |     |     |      |
| 30   |        |         | 40.8                          | 22.4 |      |                              |       |      |      |     |     |     |      |
| 40   |        |         | 50.8                          | 32.4 |      |                              |       |      |      |     |     |     |      |
| 50   |        |         | 60.8                          | 42.4 |      |                              |       |      |      |     |     |     |      |
| 80   |        |         | 90.8                          | 72.4 |      |                              |       |      |      |     |     |     |      |
| 100  |        |         | 110.8                         | 92.4 | 1.9  |                              |       |      |      |     |     |     |      |

## Datasheet

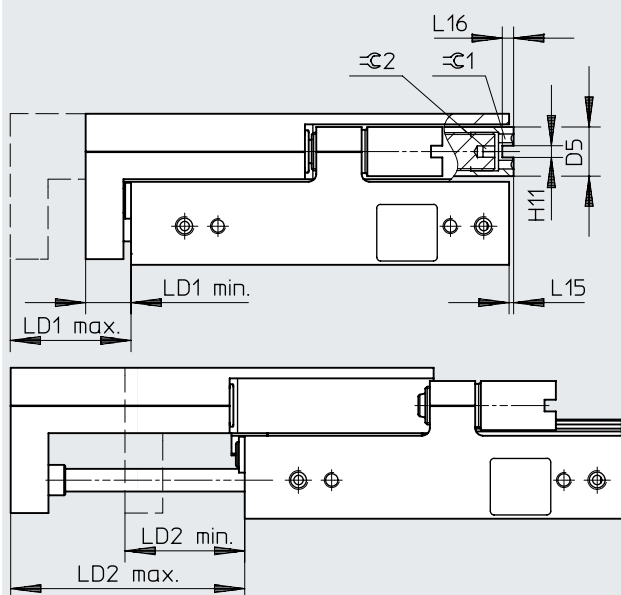
| Size | Stroke<br>[mm] | D5<br>∅ | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |        | L15  | ≡ 1 | ≡ 2 | ≡ 3 |
|------|----------------|---------|-------------------------------|------|------|------------------------------|-------|--------|------|-----|-----|-----|
|      |                |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min.   |      |     |     |     |
| 16   | 10             | 13      | 16.4                          | 12.6 | 29   | 10.15                        | 22.8  | 12.6   | 17.9 | 8   | 3   | 6   |
|      | 20             |         |                               |      |      | 17.4                         | 32.8  | 15.35  | 20.9 |     |     |     |
|      | 30             |         |                               |      |      |                              | 42.8  | 25.35  | 23.9 |     |     |     |
|      | 40             |         |                               |      |      |                              | 52.8  | 35.35  |      |     |     |     |
|      | 50             |         |                               |      |      |                              | 62.8  | 45.35  | 18.9 |     |     |     |
|      | 80             |         |                               |      |      |                              | 92.8  | 75.35  | 10.9 |     |     |     |
|      | 100            |         |                               |      |      |                              | 112.8 | 95.35  |      |     |     |     |
|      | 125            |         |                               |      |      |                              | 132.8 | 115.35 |      |     |     |     |
|      | 150            |         |                               |      |      |                              | 162.8 | 145.35 | 0    |     |     |     |

## Datasheet

## Dimensions

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DGST...-E: Setting dimension and projection in the end positions



 **Note**

Adjust and secure the cushioning components under pressure.

| Size | Stroke<br>[mm] | D5<br>ø | H11 | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |       | L15 | L16 | ⌀ 1 | ⌀ 2 |
|------|----------------|---------|-----|-------------------------------|------|------|------------------------------|-------|-------|-----|-----|-----|-----|
|      |                |         |     | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min.  |     |     |     |     |
| 6    | 10             | 6       | 1.6 | 7                             | 9    | 16   | 8.5                          | 19.5  | 11    | -   | 1.5 | 3   | 1.5 |
|      | 20             |         |     |                               |      |      |                              | 29.5  | 21    |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 39.5  | 31    |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 49.5  | 41    |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 59.5  | 51    |     |     |     |     |
| 8    | 10             | 7       | 1.6 | 6.1                           | 9.8  | 15.9 | 6.9                          | 19.2  | 12.3  | -   | 1.5 | 4   | 1.5 |
|      | 20             |         |     |                               |      |      |                              | 29.2  | 22.3  |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 39.2  | 32.3  |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 49.2  | 42.3  |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 59.2  | 52.3  |     |     |     |     |
| 10   | 80             |         |     |                               |      |      |                              | 89.2  | 82.3  |     |     |     |     |
| 10   | 10             | 8       | 2.1 | 5.6                           | 11.7 | 17.3 | 6.3                          | 21.3  | 15    | -   | 2   | 5   | 2   |
|      | 20             |         |     |                               |      |      |                              | 31.3  | 25    |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 41.3  | 35    |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 51.3  | 45    |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 61.3  | 55    |     |     |     |     |
|      | 80             |         |     |                               |      |      |                              | 91.3  | 85    |     |     |     |     |
|      | 100            |         |     |                               |      |      |                              | 111.3 | 105   |     |     |     |     |
| 12   | 10             | 10      | 2.6 | 7.4                           | 11.3 | 18.7 | 7.6                          | 21.4  | 13.8  | -   | 2.5 | 6   | 2.5 |
|      | 20             |         |     |                               |      |      |                              | 31.4  | 23.8  |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 41.4  | 33.8  |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 51.4  | 43.8  |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 61.4  | 53.8  |     |     |     |     |
|      | 80             |         |     |                               |      |      |                              | 91.4  | 83.8  |     |     |     |     |
|      | 100            |         |     |                               |      |      |                              | 111.4 | 103.8 |     |     |     |     |

## Datasheet

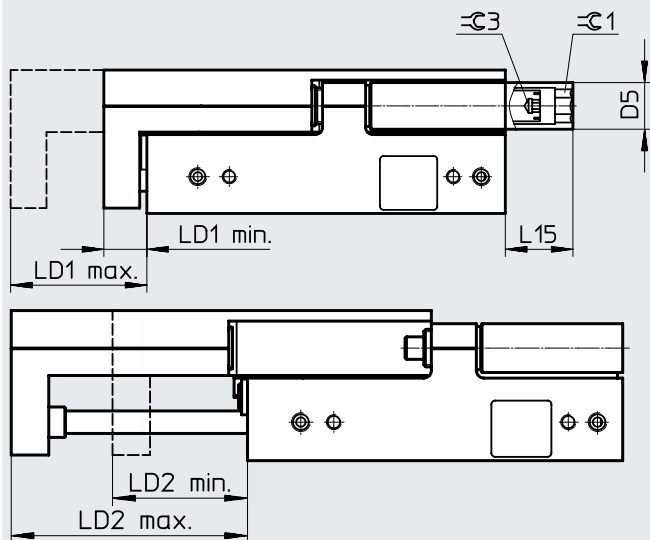
| Size | Stroke<br>[mm] | D5<br>∅ | H11 | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |       | L15 | L16 | ⌀ 1 | ⌀ 2 |
|------|----------------|---------|-----|-------------------------------|------|------|------------------------------|-------|-------|-----|-----|-----|-----|
|      |                |         |     | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min.  |     |     |     |     |
| 16   | 10             | 13      | 3.1 | 6.2                           | 13   | 19.2 | 6.4                          | 23.4  | 17    | 6.2 | 3   | 8   | 3   |
|      | 20             |         |     |                               |      |      |                              | 33.4  | 27    |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 43.4  | 37    |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 53.4  | 47    |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 63.4  | 57    |     |     |     |     |
|      | 80             |         |     |                               |      |      |                              | 93.4  | 87    |     |     |     |     |
|      | 100            |         |     |                               |      |      |                              | 113.4 | 107   |     |     |     |     |
|      | 125            |         |     |                               |      |      |                              | 138.4 | 132   |     |     |     |     |
|      | 150            |         |     |                               |      |      |                              | 163.4 | 157   |     |     |     |     |
|      |                |         |     |                               |      |      |                              |       |       |     |     |     |     |
| 20   | 10             | 15      | 4.1 | 6.5                           | 13.6 | 20.1 | 7                            | 23.5  | 16.5  | 5.5 | 4   | 10  | 4   |
|      | 20             |         |     |                               |      |      |                              | 33.5  | 26.5  |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 43.5  | 36.5  |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 53.5  | 46.5  |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 63.5  | 56.5  |     |     |     |     |
|      | 80             |         |     |                               |      |      |                              | 93.5  | 86.5  |     |     |     |     |
|      | 100            |         |     |                               |      |      |                              | 113.5 | 106.5 |     |     |     |     |
|      | 125            |         |     |                               |      |      |                              | 138.5 | 131.5 |     |     |     |     |
|      | 150            |         |     |                               |      |      |                              | 163.5 | 156.5 |     |     |     |     |
|      | 200            |         |     |                               |      |      |                              | 213.5 | 206.5 |     |     |     |     |
|      |                |         |     |                               |      |      |                              |       |       |     |     |     |     |
|      |                |         |     |                               |      |      |                              |       |       |     |     |     |     |
| 25   | 10             | 18      | 4.1 | 6                             | 15.6 | 21.6 | 6.3                          | 25.8  | 19.5  | 4.2 | 4   | 10  | 4   |
|      | 20             |         |     |                               |      |      |                              | 35.8  | 29.5  |     |     |     |     |
|      | 30             |         |     |                               |      |      |                              | 45.8  | 39.5  |     |     |     |     |
|      | 40             |         |     |                               |      |      |                              | 55.8  | 49.5  |     |     |     |     |
|      | 50             |         |     |                               |      |      |                              | 65.8  | 59.5  |     |     |     |     |
|      | 80             |         |     |                               |      |      |                              | 95.8  | 89.5  |     |     |     |     |
|      | 100            |         |     |                               |      |      |                              | 115.8 | 109.5 |     |     |     |     |
|      | 125            |         |     |                               |      |      |                              | 140.8 | 134.5 |     |     |     |     |
|      | 150            |         |     |                               |      |      |                              | 165.8 | 159.5 |     |     |     |     |
|      | 200            |         |     |                               |      |      |                              | 215.8 | 209.5 |     |     |     |     |
|      |                |         |     |                               |      |      |                              |       |       |     |     |     |     |
|      |                |         |     |                               |      |      |                              |       |       |     |     |     |     |

Datasheet

Dimensions

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

DGST...-Y12: Setting dimension and projection in the end positions



 **Note**  
Adjust and secure the cushioning components under pressure.

| Size | Stroke | D5<br>Ø | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |      | L15  | ≲ 1 | ≲ 3             |
|------|--------|---------|-------------------------------|------|------|------------------------------|-------|------|------|-----|-----------------|
|      | [mm]   |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min. |      |     |                 |
| 6    | 30     | 6       | 9.6                           | 8.6  | 18.2 | 11.2                         | 39    | 27.8 | 6    | 3   | — <sup>1)</sup> |
|      | 40     |         |                               |      |      |                              | 49    | 37.8 |      |     |                 |
|      | 50     |         |                               |      |      |                              | 59    | 47.8 | 0    |     |                 |
| 8    | 30     | 7       | 15.7                          | 9.1  | 24.8 | 17.6                         | 39.1  | 21.5 | 14.8 | 4   | 2               |
|      | 40     |         |                               |      |      |                              | 49.1  | 31.5 |      |     |                 |
|      | 50     |         |                               |      |      |                              | 59.1  | 41.5 | 10.8 |     |                 |
|      | 80     |         |                               |      |      |                              | 89.1  | 71.5 | 9.8  |     |                 |
| 10   | 30     | 8       | 14.5                          | 11.1 | 25.6 | 16.2                         | 41.1  | 24.9 | 13.9 | 5   | 2               |
|      | 40     |         |                               |      |      |                              | 51.1  | 34.9 |      |     |                 |
|      | 50     |         |                               |      |      |                              | 61.1  | 44.9 |      |     |                 |
|      | 80     |         |                               |      |      |                              | 91.1  | 74.9 | 5.9  |     |                 |
|      | 100    |         |                               |      |      |                              | 111.1 | 94.9 |      |     |                 |
| 12   | 30     | 10      | 15.2                          | 10.9 | 26.1 | 16.7                         | 41    | 24.3 | 15.4 | 6   | 2.5             |
|      | 40     |         |                               |      |      |                              | 51    | 34.3 |      |     |                 |
|      | 50     |         |                               |      |      |                              | 61    | 44.3 |      |     |                 |
|      | 80     |         |                               |      |      |                              | 91    | 74.3 |      |     |                 |
|      | 100    |         |                               |      |      |                              | 111   | 94.3 | 1.9  |     |                 |

1) There is a slot in the shock absorber for screwing it in.

## Datasheet

| Size | Stroke | D5<br>ø | Retracted end position<br>LD1 |      |      | Advanced end position<br>LD2 |       |       | L15   | ≈ 1 | ≈ 3 |       |      |      |
|------|--------|---------|-------------------------------|------|------|------------------------------|-------|-------|-------|-----|-----|-------|------|------|
|      | [mm]   |         | Setting<br>range              | min. | max. | Setting<br>range             | max.  | min.  |       |     |     |       |      |      |
| 16   | 30     | 13      | 15.5                          | 12.7 | 28.2 | 16.9                         | 43    | 26.1  | 23.85 | 8   | 3   |       |      |      |
|      | 40     |         |                               |      |      |                              | 53    | 36.1  |       |     |     |       |      |      |
|      | 50     |         |                               |      |      |                              | 63    | 46.1  |       |     |     | 18.85 |      |      |
|      | 80     |         |                               |      |      |                              | 93    | 76.1  | 10.85 |     |     |       |      |      |
|      | 100    |         |                               |      |      |                              | 113   | 96.1  |       |     |     |       |      |      |
|      | 125    |         |                               |      |      |                              | 138   | 121.1 | 0     |     |     |       |      |      |
|      | 150    |         |                               |      |      |                              | 163   | 146.1 |       |     |     |       |      |      |
| 20   | 30     | 15      | 22.1                          | 13.1 | 35.2 | 22.1                         | 43.2  | 21.1  | 31.5  | 10  | 4   |       |      |      |
|      | 40     |         | 25.9                          |      | 39   | 27.7                         | 53.2  | 25.5  |       |     |     | 63.2  | 35.5 | 27.5 |
|      | 50     |         |                               |      |      |                              | 93.2  | 65.5  |       |     |     | 12.5  |      |      |
|      | 80     |         |                               |      |      |                              | 113.2 | 85.5  | 0     |     |     |       |      |      |
|      | 100    |         |                               |      |      |                              | 138.2 | 110.5 |       |     |     |       |      |      |
|      | 125    |         |                               |      |      |                              | 163.2 | 135.5 |       |     |     |       |      |      |
|      | 150    |         |                               |      |      |                              | 213.2 | 185.5 |       |     |     |       |      |      |
|      | 200    |         |                               |      |      |                              |       |       |       |     |     |       |      |      |
| 25   | 30     | 18      | 20.2                          | 15.3 | 35.5 | 20.2                         | 45.5  | 25.3  | 42.5  | 10  | 4   |       |      |      |
|      | 40     |         | 30.2                          |      | 45.5 | 30.2                         | 55.5  | 25.3  |       |     |     |       |      |      |
|      | 50     |         | 30.4                          |      | 45.7 | 32                           | 65.5  | 33.5  |       |     |     | 32.5  |      |      |
|      | 80     |         |                               |      |      |                              | 95.5  | 63.5  | 13.5  |     |     |       |      |      |
|      | 100    |         |                               |      |      |                              | 115.5 | 83.5  | 0     |     |     |       |      |      |
|      | 125    |         |                               |      |      |                              | 140.5 | 108.5 |       |     |     |       |      |      |
|      | 150    |         |                               |      |      |                              | 165.5 | 133.5 |       |     |     |       |      |      |
|      | 200    |         |                               |      |      |                              | 215.5 | 183.5 |       |     |     |       |      |      |

## Datasheet

| Ordering data             |                |          |                 |                          |                |          |                |
|---------------------------|----------------|----------|-----------------|--------------------------|----------------|----------|----------------|
| Size                      | Stroke<br>[mm] | Part no. | Type            | Size                     | Stroke<br>[mm] | Part no. | Type           |
| <b>With cushioning E1</b> |                |          |                 | <b>With cushioning P</b> |                |          |                |
| 6                         | 10             | 8078828  | DGST-6-10-E1A   | 6                        | 10             | 8085105  | DGST-6-10-PA   |
|                           | 20             | 8078829  | DGST-6-20-E1A   |                          | 20             | 8085106  | DGST-6-20-PA   |
|                           | 30             | 8078830  | DGST-6-30-E1A   |                          | 30             | 8085107  | DGST-6-30-PA   |
|                           | 40             | 8078831  | DGST-6-40-E1A   |                          | 40             | 8085108  | DGST-6-40-PA   |
|                           | 50             | 8078832  | DGST-6-50-E1A   |                          | 50             | 8085109  | DGST-6-50-PA   |
| 8                         | 10             | 8078833  | DGST-8-10-E1A   | 8                        | 10             | 8085110  | DGST-8-10-PA   |
|                           | 20             | 8078834  | DGST-8-20-E1A   |                          | 20             | 8085111  | DGST-8-20-PA   |
|                           | 30             | 8078835  | DGST-8-30-E1A   |                          | 30             | 8085112  | DGST-8-30-PA   |
|                           | 40             | 8078836  | DGST-8-40-E1A   |                          | 40             | 8085113  | DGST-8-40-PA   |
|                           | 50             | 8078837  | DGST-8-50-E1A   |                          | 50             | 8085114  | DGST-8-50-PA   |
| 10                        | 10             | 8078839  | DGST-10-10-E1A  | 10                       | 10             | 8085116  | DGST-10-10-PA  |
|                           | 20             | 8078840  | DGST-10-20-E1A  |                          | 20             | 8085117  | DGST-10-20-PA  |
|                           | 30             | 8078841  | DGST-10-30-E1A  |                          | 30             | 8085118  | DGST-10-30-PA  |
|                           | 40             | 8078842  | DGST-10-40-E1A  |                          | 40             | 8085119  | DGST-10-40-PA  |
|                           | 50             | 8078843  | DGST-10-50-E1A  |                          | 50             | 8085120  | DGST-10-50-PA  |
| 12                        | 10             | 8078846  | DGST-12-10-E1A  | 12                       | 10             | 8085123  | DGST-12-10-PA  |
|                           | 20             | 8078847  | DGST-12-20-E1A  |                          | 20             | 8085124  | DGST-12-20-PA  |
|                           | 30             | 8078848  | DGST-12-30-E1A  |                          | 30             | 8085125  | DGST-12-30-PA  |
|                           | 40             | 8078849  | DGST-12-40-E1A  |                          | 40             | 8085126  | DGST-12-40-PA  |
|                           | 50             | 8078850  | DGST-12-50-E1A  |                          | 50             | 8085127  | DGST-12-50-PA  |
| 16                        | 10             | 8078853  | DGST-16-10-E1A  | 16                       | 10             | 8085130  | DGST-16-10-PA  |
|                           | 20             | 8078854  | DGST-16-20-E1A  |                          | 20             | 8085131  | DGST-16-20-PA  |
|                           | 30             | 8078855  | DGST-16-30-E1A  |                          | 30             | 8085132  | DGST-16-30-PA  |
|                           | 40             | 8078856  | DGST-16-40-E1A  |                          | 40             | 8085133  | DGST-16-40-PA  |
|                           | 50             | 8078857  | DGST-16-50-E1A  |                          | 50             | 8085134  | DGST-16-50-PA  |
|                           | 80             | 8078858  | DGST-16-80-E1A  |                          | 80             | 8085135  | DGST-16-80-PA  |
|                           | 100            | 8078859  | DGST-16-100-E1A |                          | 100            | 8085136  | DGST-16-100-PA |
|                           | 125            | 8078860  | DGST-16-125-E1A |                          | 125            | 8085137  | DGST-16-125-PA |
|                           | 150            | 8078861  | DGST-16-150-E1A |                          | 150            | 8085138  | DGST-16-150-PA |

## Datasheet

| Ordering data             |                |          |                 |                          |                |          |                |
|---------------------------|----------------|----------|-----------------|--------------------------|----------------|----------|----------------|
| Size                      | Stroke<br>[mm] | Part no. | Type            | Size                     | Stroke<br>[mm] | Part no. | Type           |
| <b>With cushioning E1</b> |                |          |                 | <b>With cushioning P</b> |                |          |                |
| 20                        | 10             | 8078862  | DGST-20-10-E1A  | 20                       | 10             | 8085139  | DGST-20-10-PA  |
|                           | 20             | 8078863  | DGST-20-20-E1A  |                          | 20             | 8085140  | DGST-20-20-PA  |
|                           | 30             | 8078864  | DGST-20-30-E1A  |                          | 30             | 8085141  | DGST-20-30-PA  |
|                           | 40             | 8078865  | DGST-20-40-E1A  |                          | 40             | 8085142  | DGST-20-40-PA  |
|                           | 50             | 8078866  | DGST-20-50-E1A  |                          | 50             | 8085143  | DGST-20-50-PA  |
|                           | 80             | 8078867  | DGST-20-80-E1A  |                          | 80             | 8085144  | DGST-20-80-PA  |
|                           | 100            | 8078868  | DGST-20-100-E1A |                          | 100            | 8085145  | DGST-20-100-PA |
|                           | 125            | 8078869  | DGST-20-125-E1A |                          | 125            | 8085146  | DGST-20-125-PA |
|                           | 150            | 8078870  | DGST-20-150-E1A |                          | 150            | 8085147  | DGST-20-150-PA |
|                           | 200            | 8078871  | DGST-20-200-E1A |                          | 200            | 8085148  | DGST-20-200-PA |
| 25                        | 10             | 8078872  | DGST-25-10-E1A  | 25                       | 10             | 8085149  | DGST-25-10-PA  |
|                           | 20             | 8078873  | DGST-25-20-E1A  |                          | 20             | 8085150  | DGST-25-20-PA  |
|                           | 30             | 8078874  | DGST-25-30-E1A  |                          | 30             | 8085151  | DGST-25-30-PA  |
|                           | 40             | 8078875  | DGST-25-40-E1A  |                          | 40             | 8085152  | DGST-25-40-PA  |
|                           | 50             | 8078876  | DGST-25-50-E1A  |                          | 50             | 8085153  | DGST-25-50-PA  |
|                           | 80             | 8078877  | DGST-25-80-E1A  |                          | 80             | 8085154  | DGST-25-80-PA  |
|                           | 100            | 8078878  | DGST-25-100-E1A |                          | 100            | 8085155  | DGST-25-100-PA |
|                           | 125            | 8078879  | DGST-25-125-E1A |                          | 125            | 8085156  | DGST-25-125-PA |
|                           | 150            | 8078880  | DGST-25-150-E1A |                          | 150            | 8085157  | DGST-25-150-PA |
|                           | 200            | 8078881  | DGST-25-200-E1A |                          | 200            | 8085158  | DGST-25-200-PA |

## Datasheet

| Ordering data              |                |          |                  |
|----------------------------|----------------|----------|------------------|
| Size                       | Stroke<br>[mm] | Part no. | Type             |
| <b>With cushioning Y12</b> |                |          |                  |
| 6                          | 30             | 8085159  | DGST-6-30-Y12A   |
|                            | 40             | 8085160  | DGST-6-40-Y12A   |
|                            | 50             | 8085161  | DGST-6-50-Y12A   |
| 8                          | 30             | 8085162  | DGST-8-30-Y12A   |
|                            | 40             | 8085163  | DGST-8-40-Y12A   |
|                            | 50             | 8085164  | DGST-8-50-Y12A   |
|                            | 80             | 8085165  | DGST-8-80-Y12A   |
| 10                         | 30             | 8085166  | DGST-10-30-Y12A  |
|                            | 40             | 8085167  | DGST-10-40-Y12A  |
|                            | 50             | 8085168  | DGST-10-50-Y12A  |
|                            | 80             | 8085169  | DGST-10-80-Y12A  |
|                            | 100            | 8085170  | DGST-10-100-Y12A |
| 12                         | 30             | 8085171  | DGST-12-30-Y12A  |
|                            | 40             | 8085172  | DGST-12-40-Y12A  |
|                            | 50             | 8085173  | DGST-12-50-Y12A  |
|                            | 80             | 8085174  | DGST-12-80-Y12A  |
|                            | 100            | 8085175  | DGST-12-100-Y12A |
| 16                         | 30             | 8085176  | DGST-16-30-Y12A  |
|                            | 40             | 8085177  | DGST-16-40-Y12A  |
|                            | 50             | 8085178  | DGST-16-50-Y12A  |
|                            | 80             | 8085179  | DGST-16-80-Y12A  |
|                            | 100            | 8085180  | DGST-16-100-Y12A |
|                            | 125            | 8085181  | DGST-16-125-Y12A |
|                            | 150            | 8085182  | DGST-16-150-Y12A |
| 20                         | 30             | 8085183  | DGST-20-30-Y12A  |
|                            | 40             | 8085184  | DGST-20-40-Y12A  |
|                            | 50             | 8085185  | DGST-20-50-Y12A  |
|                            | 80             | 8085186  | DGST-20-80-Y12A  |
|                            | 100            | 8085187  | DGST-20-100-Y12A |
|                            | 125            | 8085188  | DGST-20-125-Y12A |
|                            | 150            | 8085189  | DGST-20-150-Y12A |
|                            | 200            | 8085190  | DGST-20-200-Y12A |
| 25                         | 30             | 8085191  | DGST-25-30-Y12A  |
|                            | 40             | 8085192  | DGST-25-40-Y12A  |
|                            | 50             | 8085193  | DGST-25-50-Y12A  |
|                            | 80             | 8085194  | DGST-25-80-Y12A  |
|                            | 100            | 8085195  | DGST-25-100-Y12A |
|                            | 125            | 8085196  | DGST-25-125-Y12A |
|                            | 150            | 8085197  | DGST-25-150-Y12A |
|                            | 200            | 8085198  | DGST-25-200-Y12A |

## Ordering data – Modular product system

| Ordering table              |                                                                            |         |         |         |         |         |         |            |             |            |
|-----------------------------|----------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|------------|-------------|------------|
| Size                        | 6                                                                          | 8       | 10      | 12      | 16      | 20      | 25      | Conditions | Code        | Enter code |
| Module no.                  | 8073891                                                                    | 8073892 | 8073893 | 8073894 | 8073895 | 8073896 | 8073897 |            |             |            |
| Function                    | Mini slide                                                                 |         |         |         |         |         |         |            | <b>DGST</b> | DGST       |
| Size [mm]                   | 6                                                                          | 8       | 10      | 12      | 16      | 20      | 25      |            | -...        |            |
| Stroke [mm]                 | 10                                                                         | 10      | 10      | 10      | 10      | 10      | 10      |            | -...        |            |
|                             | 20                                                                         | 20      | 20      | 20      | 20      | 20      | 20      |            | -...        |            |
|                             | 30                                                                         | 30      | 30      | 30      | 30      | 30      | 30      |            | -...        |            |
|                             | 40                                                                         | 40      | 40      | 40      | 40      | 40      | 40      |            | -...        |            |
|                             | 50                                                                         | 50      | 50      | 50      | 50      | 50      | 50      |            | -...        |            |
|                             | –                                                                          | 80      | 80      | 80      | 80      | 80      | 80      |            | -...        |            |
|                             | –                                                                          | –       | 100     | 100     | 100     | 100     | 100     |            | -...        |            |
|                             | –                                                                          | –       | –       | –       | 125     | 125     | 125     |            | -...        |            |
|                             | –                                                                          | –       | –       | –       | 150     | 150     | 150     |            | -...        |            |
|                             | –                                                                          | –       | –       | –       | –       | 200     | 200     |            | -...        |            |
| Version                     | Standard                                                                   |         |         |         |         |         |         |            |             |            |
|                             | Mirror-inverted                                                            |         |         |         |         |         |         |            | -L          |            |
| Cushioning                  | Elastomer cushioning, short, at both ends                                  |         |         |         |         |         |         |            | -E          |            |
|                             | Elastic cushioning rings/plates at both ends                               |         |         |         |         |         |         |            | -P          |            |
|                             | Elastomer cushioning, at both ends, stroke not adjustable                  |         |         |         |         |         |         |            | -E1         |            |
|                             | Elastomer cushioning, adjustable at both ends, with fixed stop             |         |         |         |         | –       | –       |            | -P1         |            |
|                             | Shock absorber, self-adjusting, linear, at both ends, external             |         |         |         |         |         |         | [1]        | -Y12        |            |
| Position sensing            | Via proximity switch                                                       |         |         |         |         |         |         |            | A           |            |
| Special material properties | None                                                                       |         |         |         |         |         |         |            |             |            |
|                             | Recommended for production systems for manufacturing lithium-ion batteries |         |         |         |         |         |         | [2]        | -F1A        |            |
| Lubrication                 | Standard                                                                   |         |         |         |         |         |         |            |             |            |
|                             | Lubrication approved for use in food applications                          |         |         |         |         |         |         | [3]        | -H1         |            |

1) Y12 Only in combination with a stroke of min. 30 mm

2) F1A Not in combination with E, P1, H1

3) H1 Not in combination with Y12

## Accessories

## Connection set DADG-AK-G8-...

Material:

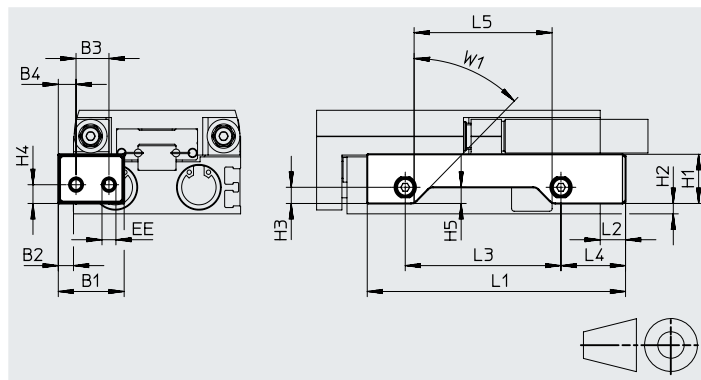
Adapter: Epoxy resin

Seals: NBR

Screws: Coated steel

–  Note:

Connection kit DADG-AK-G8-... cannot  
be used in combination with  
DGST-...-L-... (mirror-inverted)



## Dimensions and ordering data

| For size<br>[mm] | Stroke<br>[mm] | B1 | B2 | B3   | B4  | EE | H1   | H2  | H3  | H4  | H5  |
|------------------|----------------|----|----|------|-----|----|------|-----|-----|-----|-----|
| 6                | 20 ... 50      | 21 | 4  | 10.5 | 5.5 | M5 | 11.6 | 0.1 | 4.4 | 5   | 2.9 |
| 8                | 20             | 26 | 6  | 13   | 6.5 | M5 | 13.6 | 0.3 | 5.3 | 5.2 | 3.3 |
|                  | 30 ... 80      |    |    |      |     |    |      |     |     |     | 5.3 |
| 10               | 10 ... 20      | 26 | 6  | 13   | 6.5 | M5 | 16.1 | 0.7 | 6.4 | 6.4 | 3.9 |
|                  | 30 ... 100     |    |    |      |     |    |      |     |     |     | 6.4 |
| 12               | 10             | 26 | 6  | 13   | 6.5 | M5 | 18.4 | 2.6 | 6.4 | 6.4 | 3.9 |
|                  | 20 ... 100     |    |    |      |     |    |      |     |     |     | 6.4 |

| For size<br>[mm] | Stroke<br>[mm] | L1    | L2 | L3    | L4   | L5    | W1  | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type              |  |  |  |
|------------------|----------------|-------|----|-------|------|-------|-----|-------------------|---------------|----------|-------------------|--|--|--|
| 6                | 20             | 53.5  | 8  | 21.9  | 20.7 | 17    | 45° | 1                 | 4.7           | 8152357  | DADG-AK-G8-6-20   |  |  |  |
|                  | 30             | 63.5  |    | 31.9  |      | 27    |     | 1                 | 5.1           | 8152358  | DADG-AK-G8-6-30   |  |  |  |
|                  | 40             | 73.5  |    | 41.9  |      | 37    |     | 1                 | 5.4           | 8152359  | DADG-AK-G8-6-40   |  |  |  |
|                  | 50             | 90.5  |    | 58.9  |      | 54    |     | 1                 | 6             | 8152360  | DADG-AK-G8-6-50   |  |  |  |
| 8                | 20             | 61    | 10 | 23    | 23.5 | 17.4  |     | 1                 | 8.3           | 8152361  | DADG-AK-G8-8-20   |  |  |  |
|                  | 30             | 71    |    | 33    |      | 27.4  |     | 1                 | 8.7           | 8152362  | DADG-AK-G8-8-30   |  |  |  |
|                  | 40             | 81    |    | 43    |      | 37.4  |     | 1                 | 9.2           | 8152363  | DADG-AK-G8-8-40   |  |  |  |
|                  | 50             | 95    |    | 57    |      | 51.4  |     | 1                 | 9.9           | 8152364  | DADG-AK-G8-8-50   |  |  |  |
|                  | 80             | 126   |    | 88    |      | 82.4  |     | 1                 | 11.3          | 8152365  | DADG-AK-G8-8-80   |  |  |  |
| 10               | 10             | 64    | 10 | 22.5  | 25.6 | 16.7  |     | 1                 | 11            | 8152366  | DADG-AK-G8-10-10  |  |  |  |
|                  | 20             | 66    |    | 24.5  |      | 18.7  |     | 1                 | 11.2          | 8152367  | DADG-AK-G8-10-20  |  |  |  |
|                  | 30             | 76    |    | 34.5  |      | 28.7  |     | 1                 | 11.6          | 8152368  | DADG-AK-G8-10-30  |  |  |  |
|                  | 40             | 86    |    | 44.5  |      | 38.7  |     | 1                 | 12.1          | 8152369  | DADG-AK-G8-10-40  |  |  |  |
|                  | 50             | 96    |    | 54.5  |      | 48.7  |     | 1                 | 12.6          | 8152370  | DADG-AK-G8-10-50  |  |  |  |
|                  | 80             | 134   |    | 92.5  |      | 86.7  |     | 1                 | 14.5          | 8152371  | DADG-AK-G8-10-80  |  |  |  |
|                  | 100            | 154   |    | 112.5 |      | 106.7 |     | 1                 | 15.5          | 8152372  | DADG-AK-G8-10-100 |  |  |  |
| 12               | 10             | 62    | 10 | 20.7  | 25.8 | 14.9  |     | 1                 | 12.2          | 8152373  | DADG-AK-G8-12-10  |  |  |  |
|                  | 20             | 72    |    | 30.7  |      | 24.9  |     | 1                 | 12.9          | 8152374  | DADG-AK-G8-12-20  |  |  |  |
|                  | 30             | 82    |    | 40.7  |      | 34.9  |     | 1                 | 13.6          | 8152375  | DADG-AK-G8-12-30  |  |  |  |
|                  | 40             | 92    |    | 50.7  |      | 44.9  |     | 1                 | 14.2          | 8152376  | DADG-AK-G8-12-40  |  |  |  |
|                  | 50             | 102   |    | 60.7  |      | 54.9  |     | 1                 | 14.9          | 8152377  | DADG-AK-G8-12-50  |  |  |  |
|                  | 80             | 132   |    | 90.7  |      | 84.9  |     | 1                 | 16.9          | 8152378  | DADG-AK-G8-12-80  |  |  |  |
|                  | 100            | 165.5 |    | 124.2 |      | 118.4 |     | 1                 | 19.2          | 8152379  | DADG-AK-G8-12-100 |  |  |  |
|                  |                |       |    |       |      |       |     |                   |               |          |                   |  |  |  |

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

## Accessories

| Dimensions and ordering data |                |    |    |    |    |      |      |     |     |     |     |
|------------------------------|----------------|----|----|----|----|------|------|-----|-----|-----|-----|
| For size<br>[mm]             | Stroke<br>[mm] | B1 | B2 | B3 | B4 | EE   | H1   | H2  | H3  | H4  | H5  |
| 16                           | 10 ... 20      | 26 | 6  | 13 | 7  | M5   | 19   | 4   | 6.3 | 7.3 | 3.6 |
|                              | 30 ... 100     |    |    |    |    |      |      |     |     |     | 6.3 |
|                              | 125 ... 150    |    |    |    |    |      |      |     |     |     | 2   |
| 20                           | 10 ... 30      | 45 | 9  | 22 | 13 | G1/8 | 24.8 | 3.7 | 9.5 | 9.5 | 5.5 |
|                              | 40 ... 150     |    | 10 |    |    |      |      |     |     |     | 9.5 |
|                              | 200            |    |    |    |    |      |      |     |     |     | 8.6 |
| 25                           | 10 ... 30      | 45 | 9  | 22 | 13 | G1/8 | 28.2 | 6.5 | 9.5 | 9.5 | 5   |
|                              | 40 ... 150     |    | 10 |    |    |      |      |     |     |     | 9.5 |
|                              | 200            |    |    |    |    |      |      |     |     |     | 12  |

| Size<br>[mm] | Stroke<br>[mm] | L1    | L2 | L3    | L4   | L5    | W1  | CRC <sup>1)</sup> | Weight<br>[g] | Part no. | Type                |
|--------------|----------------|-------|----|-------|------|-------|-----|-------------------|---------------|----------|---------------------|
| 16           | 10             | 63    | 10 | 22.5  | 25.5 | 15.5  | 45° | 1                 | 12.9          | 8152380  | DADG-AK-G8-16-10    |
|              | 20             | 70    |    | 29.5  |      | 22.5  |     | 1                 | 13.5          | 8152381  | DADG-AK-G8-16-20    |
|              | 30             | 77    |    | 36.5  |      | 29.5  |     | 1                 | 13.8          | 8152382  | DADG-AK-G8-16-30    |
|              | 40             | 87    |    | 46.5  |      | 39.5  |     | 1                 | 14.5          | 8152383  | DADG-AK-G8-16-40    |
|              | 50             | 102   |    | 61.5  |      | 54.5  |     | 1                 | 15.5          | 8152384  | DADG-AK-G8-16-50    |
|              | 80             | 140   |    | 100.5 | 24.5 | 93.5  |     | 1                 | 17.8          | 8152385  | DADG-AK-G8-16-80    |
|              | 100            | 160   |    | 120.5 |      | 113.5 |     | 1                 | 19.1          | 8152386  | DADG-AK-G8-16-100   |
|              | 125            | 200   |    | 160.5 |      | 153.5 |     | 1                 | 28.2          | 8159793  | DADG-AK-G8-16-125   |
|              | 150            | 225   |    | 185.5 |      | 178.5 |     | 1                 | 31            | 8159794  | DADG-AK-G8-16-150   |
|              |                |       |    |       |      |       |     | 1                 | 36.3          | 8152389  | DADG-AK-G8-20-10/30 |
| 20           | 10/20/30       | 92.6  | 15 | 32    | 37   | 23.4  |     | 1                 | 36.3          | 8152389  | DADG-AK-G8-20-10/30 |
|              | 40             | 102.6 |    | 42    |      | 33.4  |     | 1                 | 37.5          | 8152390  | DADG-AK-G8-20-40    |
|              | 50             | 116.6 |    | 56    |      | 47.4  |     | 1                 | 39.2          | 8152391  | DADG-AK-G8-20-50    |
|              | 80             | 161.6 |    | 101   |      | 92.4  |     | 1                 | 44.7          | 8152392  | DADG-AK-G8-20-80    |
|              | 100            | 200.1 |    | 139.5 |      | 130.9 |     | 1                 | 49.4          | 8159795  | DADG-AK-G8-20-100   |
|              | 125            | 239.6 |    | 179   |      | 170.4 |     | 1                 | 54.2          | 8159796  | DADG-AK-G8-20-125   |
|              | 150            | 274.6 |    | 214   |      | 205.4 |     | 1                 | 58.6          | 8159797  | DADG-AK-G8-20-150   |
|              | 200            | 338.6 |    | 278   |      | 270.1 |     | 1                 | 80.2          | 8159882  | DADG-AK-G8-20-200   |
| 25           | 10/20          | 95.6  | 15 | 30.5  | 40.5 | 22.6  |     | 1                 | 43.7          | 8152397  | DADG-AK-G8-25-10/20 |
|              | 30             | 101.6 |    | 36.5  |      | 28.6  |     | 1                 | 44.8          | 8152398  | DADG-AK-G8-25-30    |
|              | 40             | 111.6 |    | 46.5  |      | 38.6  |     | 1                 | 46.1          | 8152399  | DADG-AK-G8-25-40    |
|              | 50             | 121.6 |    | 56.5  |      | 48.6  |     | 1                 | 47.5          | 8152400  | DADG-AK-G8-25-50    |
|              | 80             | 161.6 |    | 96.5  |      | 88.6  |     | 1                 | 53.4          | 8152401  | DADG-AK-G8-25-80    |
|              | 100            | 200.6 |    | 135.5 |      | 127.6 |     | 1                 | 59            | 8159816  | DADG-AK-G8-25-100   |
|              | 125            | 239.6 |    | 174.5 |      | 166.6 |     | 1                 | 64.7          | 8159817  | DADG-AK-G8-25-125   |
|              | 150            | 274.6 |    | 209.5 |      | 201.6 |     | 1                 | 69.8          | 8159818  | DADG-AK-G8-25-150   |
|              | 200            | 338.6 |    | 273.5 |      | 265.5 |     | 1                 | 87.7          | 8159883  | DADG-AK-G8-25-200   |

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

## Accessories

### Intermediate-position module DADM

Material:

Housing:

Wrought aluminium alloy

Lever:

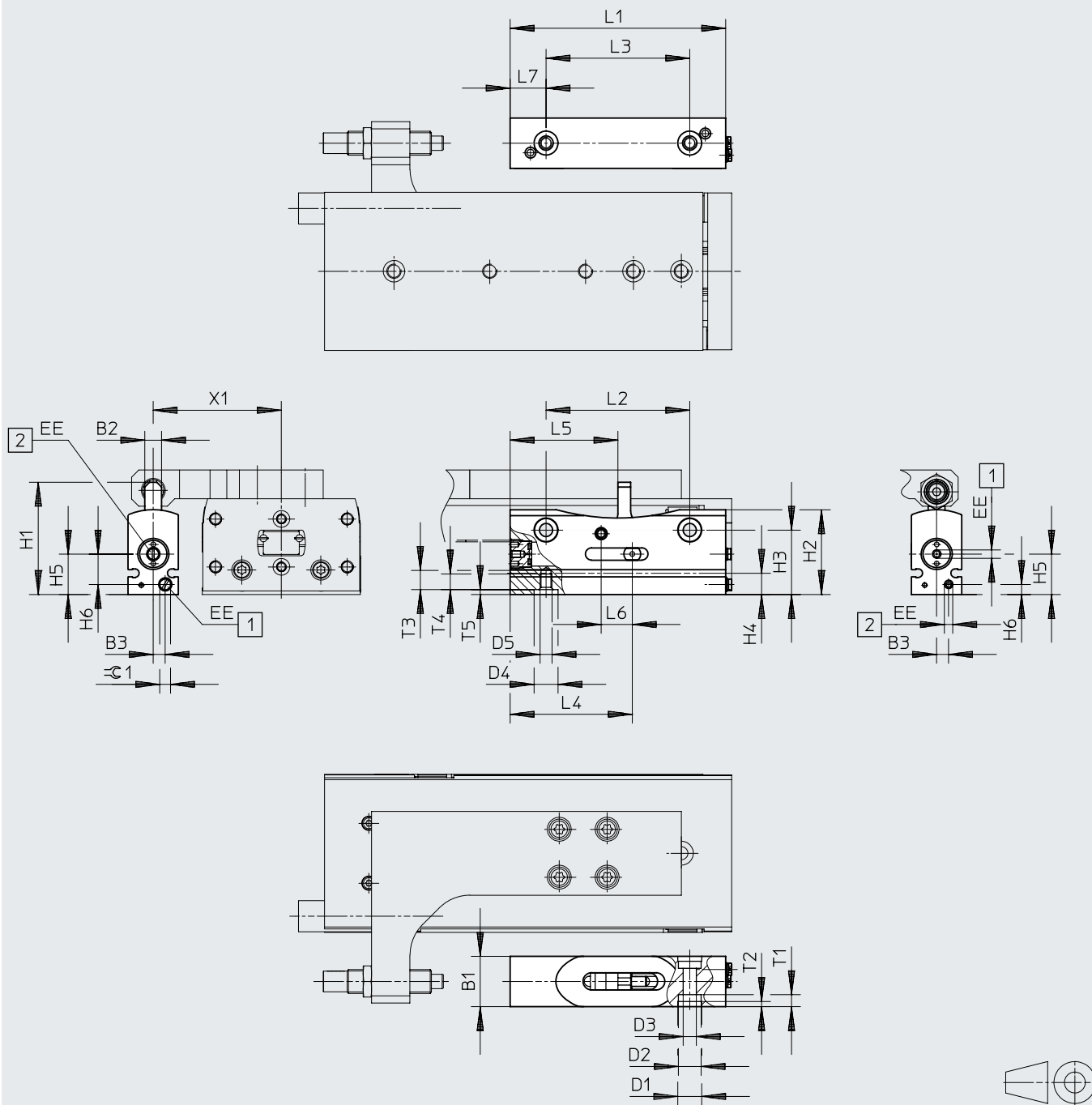
High-alloy stainless steel

RoHS-compliant



## Dimensions and ordering data

Datasheets → Internet: dadm



- [1] Swivel stop lever inwards
- [2] Swivel stop lever outwards

**Note**

With DADM-EP-G6-10: SME/SMT-10

With DADM-EP-G6-16: SME/SMT-8

## Accessories

| For size | B1   | B2 | B3  | D1<br>∅<br>H7 | D2<br>∅ | D3<br>∅ | D4<br>∅<br>H7 | D5 | EE | H1   | H2   |
|----------|------|----|-----|---------------|---------|---------|---------------|----|----|------|------|
| 12, 16   | 21   | 7  | 5   | 10            | 9.5     | 5.5     | 10            | M5 | M3 | 46.9 | 35.4 |
| 20, 25   | 26.5 | 9  | 5.5 | 12            | 11      | 6.6     | 12            | M6 | M5 | 65.2 | 47.4 |

| For size | H3<br>±0.1 | H4   | H5<br>±0.1 | H6<br>±0.1 | L1  | L2<br>±0.05 | L3<br>±0.05 | L4 | L5 | L6 | L7 |
|----------|------------|------|------------|------------|-----|-------------|-------------|----|----|----|----|
| 12, 16   | 26.9       | 8.9  | 16.9       | 12.7       | 90  | 60          | 60          | 51 | 45 | 12 | 15 |
| 20, 25   | 36.4       | 12.4 | 23.4       | 17         | 120 | 80          | 80          | 68 | 60 | 16 | 20 |

| For size | T1  | T2<br>±0.05 | T3 | T4  | T5<br>±0.05 | X1<br>+0.2 | ≈G1 | Weight<br>[g] | Part no. | Type          |
|----------|-----|-------------|----|-----|-------------|------------|-----|---------------|----------|---------------|
| 12       | 5   | 2.15        | 8  | 6.5 | 2.15        | 50.5       | 4.5 | 154           | 1492072  | DADM-EP-G6-10 |
| 16       |     |             |    |     |             |            |     |               |          |               |
| 20       | 6.8 | 2.65        | 10 | 8   | 2.65        | 70.8       | 2.5 | 340           | 1478121  | DADM-EP-G6-16 |
| 25       |     |             |    |     |             |            |     |               |          |               |

| Ordering data                                                                       |  | For size | Description                                                                                                                     | Part no. | Type     | PU <sup>1)</sup>           |
|-------------------------------------------------------------------------------------|--|----------|---------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------------------------|
| <b>Connector sleeve ZBV</b>                                                         |  |          |                                                                                                                                 |          |          | Datasheets → Internet: zbv |
|   |  | 12, 16   | For centring the intermediate-position module (2 pieces included in the scope of delivery for the intermediate-position module) | 560254   | ZBV-10-9 | 10                         |
| <b>Centring sleeve ZBH</b>                                                          |  |          |                                                                                                                                 |          |          | Datasheets → Internet: zbh |
|  |  | 20, 25   | For centring the intermediate-position module (2 pieces included in the scope of delivery for the intermediate-position module) | 8137185  | ZBH-12-B | 10                         |

1) Packaging unit

## Assembly

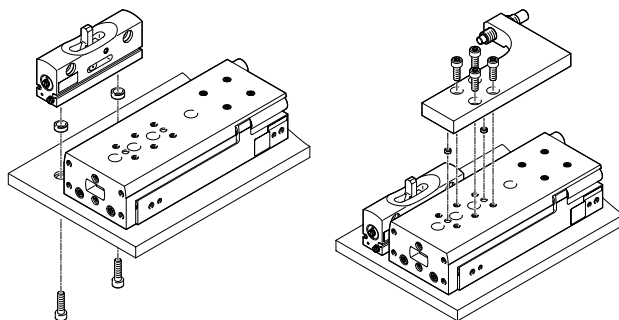
To ensure that the shock absorber hits the middle of the stop lever, the following spacing must be complied with:

DGST-12/16: 10 mm

DGST-20/25: 15 mm

It is fastened on the mounting surface using 2 screws and centring sleeves.

The shock absorber retainer is then attached to the slide of the mini slide using 4 screws and 2 centring sleeves.



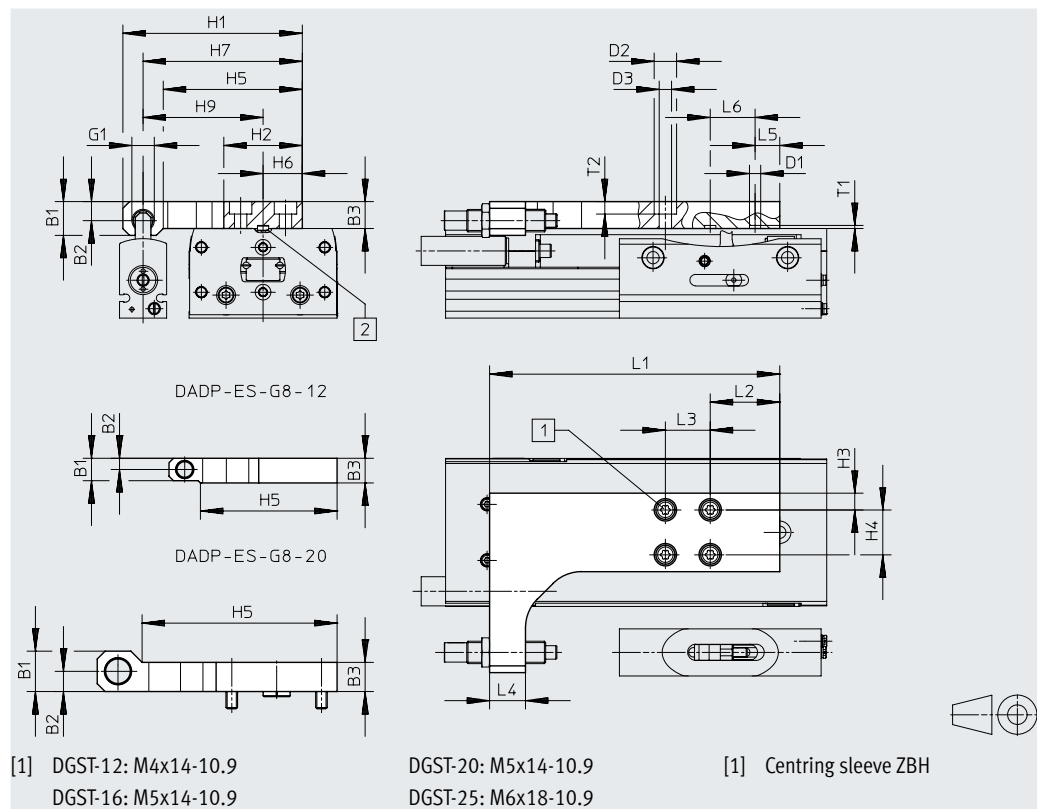
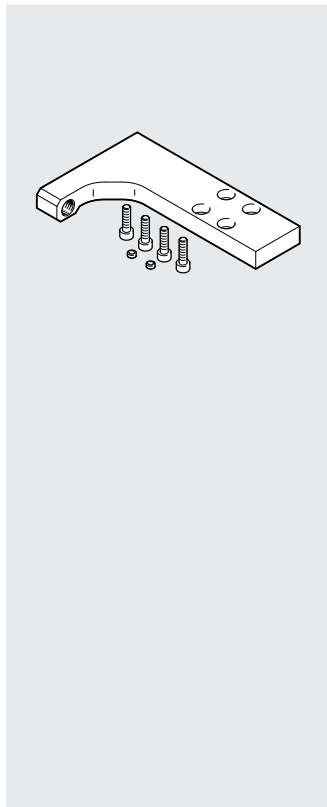
## Precision adjustment:

The position can be precisely adjusted via the screw-in depth of the shock absorber. The shock absorber must protrude by at least 1.5 mm.

## Accessories

## Shock absorber retainer DADP

Material:  
Anodised wrought aluminium alloy  
RoHS-compliant



## Dimensions and ordering data

| For size | B1<br>±0.1 | B2   | B3<br>±0.1 | H1  | H2 | H3  | H4 | H5 | H6   | H7    | H9   | D1<br>Ø          | D2<br>Ø | D3<br>Ø | G1    |
|----------|------------|------|------------|-----|----|-----|----|----|------|-------|------|------------------|---------|---------|-------|
| 12       | 10         | 5    | 11         | 75  | 35 | 7.5 | 20 | 61 | 17.5 | 68    | 50.5 | 5 <sup>H7</sup>  | 8       | 4.5     | M8x1  |
| 16       | 15.1       | 8.5  | 12         | 80  | 35 | 7.5 | 20 | 62 | 17.5 | 71    | 53.5 | 5 <sup>H7</sup>  | 10      | 5.5     | M10x1 |
| 20       | 18         | 9    | 13         | 107 | 54 | 7   | 40 | 87 | 27   | 97.8  | 70.8 | 12 <sup>H7</sup> | 10      | 5.5     | M12x1 |
| 25       | 24.6       | 15.6 | 14         | 126 | 70 | 15  | 40 | 90 | 35   | 115.3 | 80.3 | 12 <sup>H7</sup> | 11      | 6.6     | M14x1 |

| For size | L1    | L2   | L3 | L4 | L5   | L6   | T1<br>±0.05 | T2  | Weight<br>[g] | Part no. | Type          |
|----------|-------|------|----|----|------|------|-------------|-----|---------------|----------|---------------|
| 12       | 119.9 | 25   | 20 | 16 | 5    | 3x20 | 1.35        | 4.4 | 151           | 8159234  | DADP-ES-G8-12 |
| 16       | 129.4 | 31   | 20 | 16 | 11   | 3x20 | 1.35        | 5.6 | 182           | 8159235  | DADP-ES-G8-16 |
| 20       | 131   | 8    | 40 | 25 | 8    | 2x40 | 2.65        | 6.6 | 307           | 8159236  | DADP-ES-G8-20 |
| 25       | 150.5 | 10.5 | 40 | 32 | 10.5 | 2x40 | 2.65        | 6.4 | 506           | 8159237  | DADP-ES-G8-25 |

## Ordering data

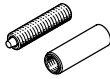
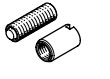
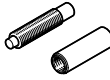
|                     | For size | Description                                                                                                          | Part no. | Type     | PU <sup>1)</sup> |
|---------------------|----------|----------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|
| Centring sleeve ZBH |          |                                                                                                                      |          |          |                  |
|                     | 12, 16   | For centring the shock absorber retainer (2 pieces included in the scope of delivery of the shock absorber retainer) | 8146543  | ZBH-5-B  | 10               |
|                     | 20, 25   |                                                                                                                      | 8137185  | ZBH-12-B |                  |

1) Packaging unit

Note

- A shock absorber retainer DADP-ES is additionally required when using an intermediate-position module
- Operation without cushioning components is not permitted
- Cushioning components are not included in the scope of delivery
- The size of the shock absorbers for the mini slides and for the relevant shock absorber retainer are identical. Shock absorber selection → page 55
- The same cushioning component as is used in the end positions of the mini slide is used for cushioning the intermediate position

## Accessories

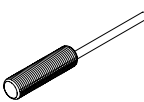
| Ordering data – Shock absorbers                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        |                             |                        |
|-------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------|
|                                                                                     | For size | Description                                                                                                                                                                                                                                                                                                                                                            | Part no.                    | Type                   |
| For DGST-...-P                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                        | Datasheets → Internet: dyef |                        |
|    | 6        | <ul style="list-style-type: none"><li>• Scope of delivery: 1 cushioning component and 1 threaded sleeve</li><li>• Elastic cushioning rings/plates at both ends</li><li>• Included in the scope of delivery for DGST-...-P (pack of 2)</li></ul>                                                                                                                        | 8073902                     | DYEF-G8-M4-Y1          |
|                                                                                     | 8        |                                                                                                                                                                                                                                                                                                                                                                        | 8131070                     | DYEF-G8-M4-Y1-F1A      |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073903                     | DYEF-G8-M5-Y1          |
|                                                                                     | 10       |                                                                                                                                                                                                                                                                                                                                                                        | 8131071                     | DYEF-G8-M5-Y1-F1A      |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073904                     | DYEF-G8-M6-Y1          |
|                                                                                     | 12       |                                                                                                                                                                                                                                                                                                                                                                        | 8131072                     | DYEF-G8-M6-Y1-F1A      |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073905                     | DYEF-G8-M8-Y1          |
|                                                                                     | 16       |                                                                                                                                                                                                                                                                                                                                                                        | 8131073                     | DYEF-G8-M8-Y1-F1A      |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073906                     | DYEF-G8-M10-Y1         |
|                                                                                     | 20       |                                                                                                                                                                                                                                                                                                                                                                        | 8131074                     | DYEF-G8-M10-Y1-F1A     |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073907                     | DYEF-G8-M12-Y1         |
|                                                                                     | 25       |                                                                                                                                                                                                                                                                                                                                                                        | 8132355                     | DYEF-G8-M12-Y1-F1A     |
| 8073908                                                                             |          | DYEF-G8-M14-Y1                                                                                                                                                                                                                                                                                                                                                         |                             |                        |
|                                                                                     | 8132356  | DYEF-G8-M14-Y1-F1A                                                                                                                                                                                                                                                                                                                                                     |                             |                        |
| For DGST-...-P1                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | Datasheets → Internet: dyef |                        |
|    | 6        | <ul style="list-style-type: none"><li>• Scope of delivery: 1 cushioning component and 1 threaded sleeve</li><li>• Elastomer cushioning, adjustable at both ends, with fixed stop</li><li>• Included in the scope of delivery for DGST-...-P1 (pack of 2)</li></ul>                                                                                                     | 8160234                     | DYEF-G8-M4-Y1F         |
|                                                                                     | 8        |                                                                                                                                                                                                                                                                                                                                                                        | 8160235                     | DYEF-G8-M5-Y1F         |
|                                                                                     | 10       |                                                                                                                                                                                                                                                                                                                                                                        | 8160236                     | DYEF-G8-M6-Y1F         |
|                                                                                     | 12       |                                                                                                                                                                                                                                                                                                                                                                        | 8160237                     | DYEF-G8-M8-Y1F         |
|                                                                                     | 16       |                                                                                                                                                                                                                                                                                                                                                                        | 8160238                     | DYEF-G8-M10-Y1F        |
| For DGST-...-E                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                        | Datasheets → Internet: dyef |                        |
|   | 6        | <ul style="list-style-type: none"><li>• Scope of delivery: 1 cushioning component and 1 threaded sleeve</li><li>• Elastomer cushioning, short, at both ends</li><li>• Included in the scope of delivery for DGST-...-E (pack of 2)</li></ul>                                                                                                                           | 8159470                     | DYEF-G8-S-M4-Y1        |
|                                                                                     | 8        |                                                                                                                                                                                                                                                                                                                                                                        | 8159471                     | DYEF-G8-S-M5-Y1        |
|                                                                                     | 10       |                                                                                                                                                                                                                                                                                                                                                                        | 8159472                     | DYEF-G8-S-M6-Y1        |
|                                                                                     | 12       |                                                                                                                                                                                                                                                                                                                                                                        | 8159473                     | DYEF-G8-S-M8-Y1        |
|                                                                                     | 16       |                                                                                                                                                                                                                                                                                                                                                                        | 8159474                     | DYEF-G8-S-M10-Y1       |
|                                                                                     | 20       |                                                                                                                                                                                                                                                                                                                                                                        | 8159475                     | DYEF-G8-S-M12-Y1       |
|                                                                                     | 25       |                                                                                                                                                                                                                                                                                                                                                                        | 8159476                     | DYEF-G8-S-M14-Y1       |
| For DGST-...-Y12                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                        | Datasheets → Internet: dyss |                        |
|  | 6        | <ul style="list-style-type: none"><li>• Scope of delivery: 1 cushioning component and 1 threaded sleeve</li><li>• Shock absorber, self-adjusting, linear, at both ends, external</li><li>• Included in the scope of delivery for DGST-...-Y12 (pack of 2)</li><li>• Only possible from a stroke of 30 mm</li><li>• Set minimum stroke ≥ 2x cushioning length</li></ul> | 8073911                     | DYSS-G8-2-4-Y1F        |
|                                                                                     | 8        |                                                                                                                                                                                                                                                                                                                                                                        | 8119980                     | DYSS-G8-2-4-Y1F-F1A    |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8111383                     | DYSS-G8-3-4-Y1F-G2     |
|                                                                                     | 10       |                                                                                                                                                                                                                                                                                                                                                                        | 8119981                     | DYSS-G8-3-4-Y1F-F1A-G2 |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8111384                     | DYSS-G8-4-4-Y1F-G2     |
|                                                                                     | 12       |                                                                                                                                                                                                                                                                                                                                                                        | 8119982                     | DYSS-G8-4-4-Y1F-F1A-G2 |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073914                     | DYSS-G8-5-5-Y1F        |
|                                                                                     | 16       |                                                                                                                                                                                                                                                                                                                                                                        | 8119983                     | DYSS-G8-5-5-Y1F-F1A    |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073915                     | DYSS-G8-7-5-Y1F        |
|                                                                                     | 20       |                                                                                                                                                                                                                                                                                                                                                                        | 8119984                     | DYSS-G8-7-5-Y1F-F1A    |
|                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                        | 8073916                     | DYSS-G8-8-8-Y1F        |
|                                                                                     | 25       |                                                                                                                                                                                                                                                                                                                                                                        | 8132349                     | DYSS-G8-8-8-Y1F-F1A    |
| 8073917                                                                             |          | DYSS-G8-10-10-Y1F                                                                                                                                                                                                                                                                                                                                                      |                             |                        |
|                                                                                     | 8132350  | DYSS-G8-10-10-Y1F-F1A                                                                                                                                                                                                                                                                                                                                                  |                             |                        |

## Monitoring with distance sensor SOIA

To monitor the application and condition of the damping elements. Enables predictive maintenance and increases reliability and accuracy.

The following parameters can be monitored:

- Impact velocity
- End position
- Energy consumption
- Residual energy
- Damping reserve

| Distance sensor SOIA, inductive <span style="float: right;">Datasheets → Internet: soia</span> |               |                              |                                |                       |          |                     |
|------------------------------------------------------------------------------------------------|---------------|------------------------------|--------------------------------|-----------------------|----------|---------------------|
|                                                                                                | Mounting type | Displacement measuring range | Switching output               | Electrical connection | Part no. | Type                |
|             | Flush         | 0 ... 2 mm                   | PNP/NPN, switchable, Push-pull | Open end              | 8161194  | SOIA-M8PB-PNLK-LE   |
|                                                                                                |               | 0 ... 4 mm                   |                                |                       | 8161198  | SOIA-M12PB-PNLK-LE  |
|                                                                                                | Not flush     |                              |                                |                       | 8161196  | SOIA-M8PNB-PNLK-LE  |
|                                                                                                |               | 0 ... 7 mm                   |                                |                       | 8161200  | SOIA-M12PNB-PNLK-LE |

## Accessories

| Ordering data                                                                      |                  |                                                      |                             |                   |                  |
|------------------------------------------------------------------------------------|------------------|------------------------------------------------------|-----------------------------|-------------------|------------------|
|                                                                                    | For size         | Description                                          | Part no.                    | Type              | PU <sup>1)</sup> |
| <b>Centring sleeve/Centring pin ZBH, ZBS</b>                                       |                  |                                                      | Datasheets → Internet: zbh  |                   |                  |
|    | 6, 8, 10, 12, 16 | For centring loads and attachments on the slide      | 8146543                     | ZBH-5-B           | 10               |
|                                                                                    | 20, 25           |                                                      | 8137185                     | ZBH-12-B          |                  |
|                                                                                    | 6                | For centring loads and attachments on the yoke plate | 525273                      | ZBS-2             |                  |
|                                                                                    | 8, 10            |                                                      | 8146543                     | ZBH-5-B           |                  |
|                                                                                    | 12, 16           |                                                      | 8146544                     | ZBH-7-B           |                  |
|                                                                                    | 20, 25           |                                                      | 8137185                     | ZBH-12-B          |                  |
|                                                                                    | 6, 8             | For centring the mini slide during mounting          | 8119593                     | ZBH-5-M4          |                  |
|                                                                                    | 10, 12           |                                                      | 8146544                     | ZBH-7-B           |                  |
|                                                                                    | 16               |                                                      | 8137184                     | ZBH-9-B           |                  |
|                                                                                    | 20, 25           |                                                      | 8137185                     | ZBH-12-B          |                  |
| <b>Connector sleeve ZBV</b>                                                        |                  |                                                      | Datasheets → Internet: zbv  |                   |                  |
|    | 20               | For centring loads and attachments on the yoke plate | 548806                      | ZBV-12-9          | 10               |
| <b>One-way flow control valve GRLA</b>                                             |                  |                                                      | Datasheets → Internet: grla |                   |                  |
|    | 6                | For regulating speed                                 | 175041                      | GRLA-M3-QS-3      | 1                |
|                                                                                    | 8, 10, 12, 16    |                                                      | 193139                      | GRLA-M5-QS-6-D    |                  |
|                                                                                    | 20, 25           |                                                      | 193145                      | GRLA-1/8-QS-8-D   |                  |
|                                                                                    |                  |                                                      |                             |                   |                  |
| <b>One-way flow control valve GRLA for connection kit DADG-AK-G8-...</b>           |                  |                                                      | Datasheets → Internet: grla |                   |                  |
|   | 6                | For regulating speed                                 | 175053                      | GRLA-M5-QS-3-LF-C | 1                |
|                                                                                    | 8, 10, 12, 16    |                                                      | 193139                      | GRLA-M5-QS-6-D    |                  |
|                                                                                    | 20, 25           |                                                      | 193145                      | GRLA-1/8-QS-8-D   |                  |
|                                                                                    |                  |                                                      |                             |                   |                  |
| <b>Push-in fitting QSM</b>                                                         |                  |                                                      | Datasheets → Internet: qs   |                   |                  |
|  | 6                | For connecting tubing with standard O.D.             | 153303                      | QSM-M3-4          | 10               |
|                                                                                    | 8, 10, 12, 16    |                                                      | 153304                      | QSM-M5-4          |                  |
|                                                                                    | 20, 25           |                                                      | 153307                      | QSM-1/8-6         |                  |
|                                                                                    |                  |                                                      |                             |                   |                  |
| <b>Push-in fitting QSM for connection kit DADG-AK-G8-...</b>                       |                  |                                                      | Datasheets → Internet: qs   |                   |                  |
|  | 6                | For connecting tubing with standard O.D.             | 153302                      | QSM-M5-3          | 10               |
|                                                                                    | 8, 10, 12, 16    |                                                      | 153313                      | QSM-M5-3-I        |                  |
|                                                                                    | 20, 25           |                                                      | 153304                      | QSM-M5-4          |                  |
|                                                                                    |                  |                                                      | 153307                      | QSM-1/8-6         |                  |

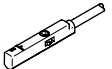
1) Packaging unit

## Accessories

## Proximity switch for size 6 ... 12

## Ordering data – Proximity switch for C-slot, magneto-resistive

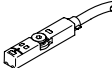
Datasheets → Internet: smt

|                                                                                   | Type of mounting                | Switching output | Electrical connection, Outlet direction of connection | Cable length [m] | Part no. | Type                       |
|-----------------------------------------------------------------------------------|---------------------------------|------------------|-------------------------------------------------------|------------------|----------|----------------------------|
| N/O                                                                               |                                 |                  |                                                       |                  |          |                            |
|  | Inserted in the slot from above | PNP              | Cable, 3-core, lengthwise                             | 2.5              | 551373   | SMT-10M-PS-24V-E-2.5-L-OE  |
|                                                                                   |                                 |                  | Plug M8x1, 3-pin, in-line                             | 0.3              | 551375   | SMT-10M-PS-24V-E-0.3-L-M8D |
|                                                                                   |                                 |                  | Plug M8x1, 3-pin, crosswise                           | 0.3              | 551376   | SMT-10M-PS-24V-E-0.3-Q-M8D |
|                                                                                   |                                 | NPN              | Cable, 3-wire                                         | 2.5              | 551377   | SMT-10M-NS-24V-E-2.5-L-OE  |
|                                                                                   |                                 |                  | Cable, 3-wire                                         | 2.5              | 551378   | SMT-10M-NS-24V-E-2.5-Q-OE  |
|                                                                                   |                                 |                  | Plug M8x1, 3-pin, in-line                             | 0.3              | 551379   | SMT-10M-NS-24V-E-0.3-L-M8D |
|                                                                                   |                                 |                  | Plug M8x1, 3-pin, crosswise                           | 0.3              | 551380   | SMT-10M-NS-24V-E-0.3-Q-M8D |

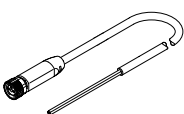
## Proximity switch for size 16 ... 25

## Ordering data – Proximity switch for T-slot, magneto-resistive

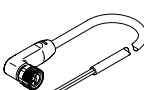
Datasheets → Internet: smt

|                                                                                   | Type of mounting                                                               | Switching output | Electrical connection | Cable length [m] | Part no. | Type                      |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------|-----------------------|------------------|----------|---------------------------|
| N/O                                                                               |                                                                                |                  |                       |                  |          |                           |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP              | Cable, 3-core         | 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 |
|                                                                                   |                                                                                | NPN              | Cable, 3-core         | 2.5              | 574338   | SMT-8M-A-NS-24V-E-2.5-OE  |
|                                                                                   |                                                                                |                  | 1x M8 plug, 3-pin     | 0.3              | 574339   | SMT-8M-A-NS-24V-E-0.3-M8D |

## Connecting cables NEBA, straight

|                                                                                     | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/cores | Cable length | Part no. | Type                  |
|-------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|-----------------------|
|  | M8x1 A-coded to EN 61076-2-104                 | Open end                                       | 3                                             | 2.5 m        | 8078223  | NEBA-M8G3-U-2.5-N-LE3 |
|                                                                                     |                                                |                                                |                                               | 5 m          | 8078224  | NEBA-M8G3-U-5-N-LE3   |

## Connecting cables NEBA, angled

|                                                                                     | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/cores | Cable length | Part no. | Type                  |
|-------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|-----------------------|
|  | M8x1 A-coded to EN 61076-2-104                 | Open end                                       | 3                                             | 2.5 m        | 8078230  | NEBA-M8W3-U-2.5-N-LE3 |
|                                                                                     |                                                |                                                |                                               | 5 m          | 8078231  | NEBA-M8W3-U-5-N-LE3   |

## Accessories

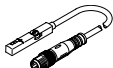
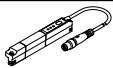
## Position transmitter

The position transmitter continuously senses the position of the piston.

It has an analogue output with an output signal that is proportional to the piston position.

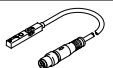
## Ordering data – Position transmitter for T-slot

Datasheets → Internet: position transmitter

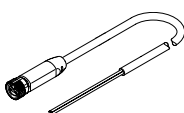
|                                                                                  | For Ø     | Position measuring range | Analogue output |          | Type of mounting                | Electrical connection     | Cable length [m] | Part no.       | Type                                |
|----------------------------------------------------------------------------------|-----------|--------------------------|-----------------|----------|---------------------------------|---------------------------|------------------|----------------|-------------------------------------|
|                                                                                  |           |                          | [V]             | [mA]     |                                 |                           |                  |                |                                     |
|  | 16 ... 25 | 0 ... 40                 | 0 ... 10        | –        | Inserted in the slot from above | Plug M8x1, 4-pin, in-line | 0.3              | <b>553744</b>  | <b>SMAT-8M-U-E-0.3-M8D</b>          |
|  | 16 ... 25 | 0 ... 50                 | –               | 4 ... 20 | Inserted in the slot from above | Plug M8x1, 4-pin, in-line | 0.3              | <b>1531265</b> | <b>SDAT-MHS-M50-1L-SA-E-0.3-M8</b>  |
|                                                                                  |           | 0 ... 80                 |                 |          |                                 |                           |                  | <b>1531266</b> | <b>SDAT-MHS-M80-1L-SA-E-0.3-M8</b>  |
|                                                                                  |           | 0 ... 100                |                 |          |                                 |                           |                  | <b>1531267</b> | <b>SDAT-MHS-M100-1L-SA-E-0.3-M8</b> |
|                                                                                  |           | 0 ... 125                |                 |          |                                 |                           |                  | <b>1531268</b> | <b>SDAT-MHS-M125-1L-SA-E-0.3-M8</b> |
|                                                                                  |           | 0 ... 160                |                 |          |                                 |                           |                  | <b>1531269</b> | <b>SDAT-MHS-M160-1L-SA-E-0.3-M8</b> |

## Ordering data – Position transmitter for T-slot

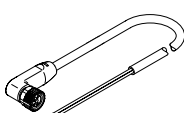
Datasheets → Internet: sdas

|                                                                                  | Position measuring range | Description                                                                    | Type of mounting                | Electrical connection     | Cable length [m] | Part no.       | Type                                    |
|----------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------|---------------------------------|---------------------------|------------------|----------------|-----------------------------------------|
|  | For Ø 16: ≤ 28           | Choice of two operating modes:<br>two adjustable switching outputs<br>IO-Link® | Inserted in the slot from above | Plug M8x1, 4-pin, in-line | 0.3              | <b>8063974</b> | <b>SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8</b> |
|                                                                                  | For Ø 20, 25: ≤ 32       |                                                                                |                                 | Cable, open end           | 2.5              | <b>8063975</b> | <b>SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE</b> |

## Connecting cables NEBA, straight

|                                                                                    | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/cores | Cable length | Part no.       | Type                         |
|------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------------|------------------------------|
|  | M8x1 A-coded to EN 61076-2-104                 | Open end                                       | 4                                             | 2.5 m        | <b>8078227</b> | <b>NEBA-M8G4-U-2.5-N-LE4</b> |
|                                                                                    |                                                |                                                |                                               | 5 m          | <b>8078228</b> | <b>NEBA-M8G4-U-5-N-LE4</b>   |

## Connecting cables NEBA, angled

|                                                                                    | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/cores | Cable length | Part no.       | Type                         |
|------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------------|------------------------------|
|  | M8x1 A-coded to EN 61076-2-104                 | Open end                                       | 4                                             | 2.5 m        | <b>8078233</b> | <b>NEBA-M8W4-U-2.5-N-LE4</b> |
|                                                                                    |                                                |                                                |                                               | 5 m          | <b>8078234</b> | <b>NEBA-M8W4-U-5-N-LE4</b>   |