

Mini slides DGSL

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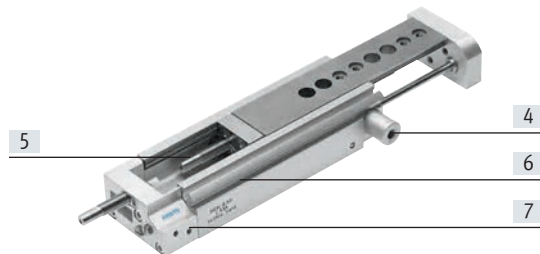
Just look
for the
star!

Key features

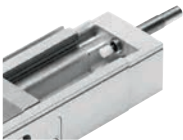
General

- Double-acting drives
- Wide range of mounting options
- System product for handling and assembly technology
- Highly flexible thanks to versatile assembly and mounting options on:
 - Drive body, slide, yoke plate

The technology in detail



[1] Cushioning



- Choice of five cushioning types:
 - Elastic cushioning without metal end position (P)
 - Elastic cushioning without metal end position, short design (E)
 - Elastic cushioning with metal end position (P1)
 - Shock absorber (Y3)
 - Shock absorber with reducing sleeve (Y11)
- Alternative:
 - Without cushioning (N)

[2] Cover

→ Page 47



- The cover stops foreign parts or dirt getting into the guide
- The cover comes in different lengths and can be shortened as required by the customer

[3] Coarse stroke adjustment

→ Page 10



- The end stop for the advanced end position can be adjusted mechanically, for example to shorten the stroke

[4] Clamping unit

→ Page 40



- Mechanical clamping for fixing the slide in any position; frictional locking (C)

[4] End-position locking

→ Page 40



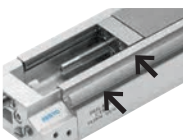
- Mechanical locking when the end position is reached, for fixing the slide in the unpressurised, retracted state; positive locking (E3)

[5] Innovative guide unit



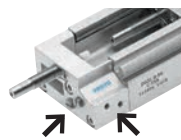
- Wide roller track, providing extremely high rigidity
- High load capacity
- High precision
- Housing and steel slide form a guide, there are no accumulative tolerances

[6] Position sensing



- Proximity switches can be integrated, so there are no projecting parts
- Two slots for mounting
- Clearly visible from the side and from above

[7] Supply ports



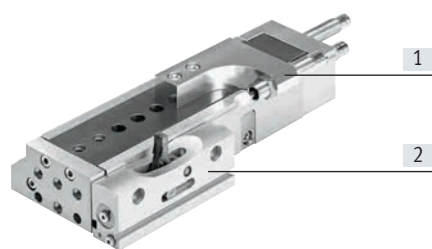
- Choice of two sides:
 - On the front
 - On the side

System example

The technology in detail

Intermediate-position module

→ Page 48

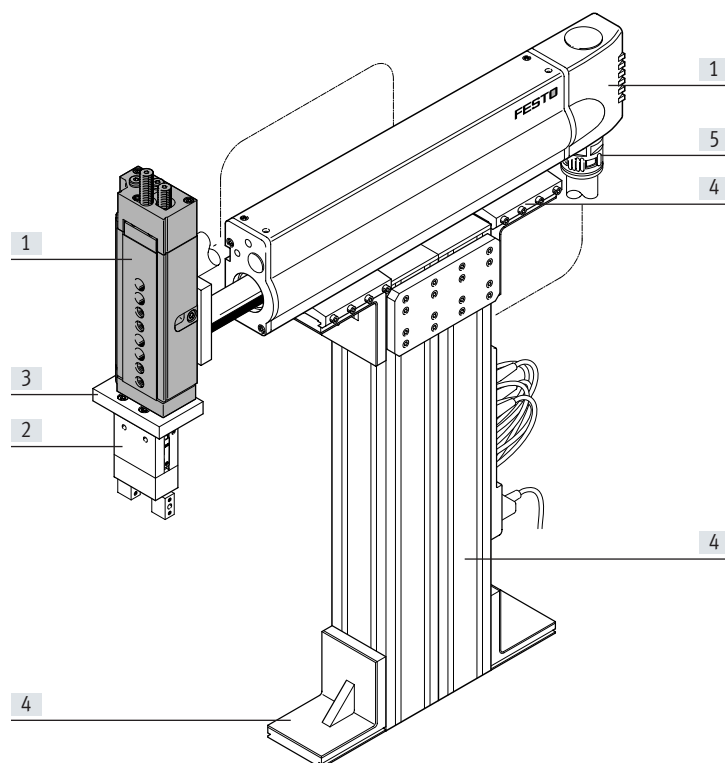


The intermediate-position module enables an additional adjustable position within the stroke range.

- [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 possible

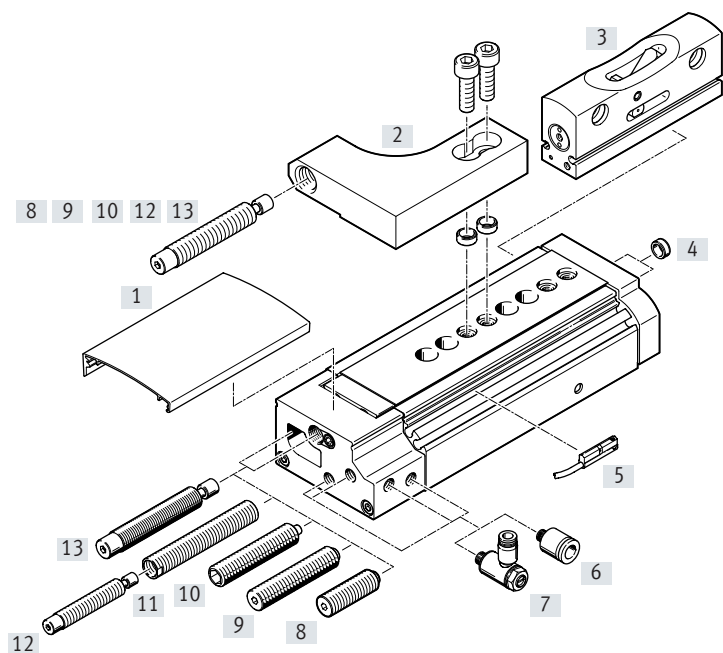
System product for handling and assembly technology



System components and accessories

| | Description | → Page/Internet |
|-----------------------------|---|------------------------|
| [1] Drives | Wide range of combinations possible within handling and assembly technology | drive |
| [2] Grippers | Wide range of variations possible within handling and assembly technology | gripper |
| [3] Adapters | For drive/drive connections | 54 |
| | For drive/gripper connections | adapter kit |
| [4] Basic components | Profiles and profile connections as well as profile/drive connections | basic component |
| [5] Installation components | For a clear, safe layout of electrical cables and tubing | installation component |
| - Axes | Wide range of combinations possible within handling and assembly technology | axis |
| - Motors | Servo and stepper motors, with or without gearbox | motor |

Peripherals overview



Note
 Operation without cushioning components is not permitted.

| Accessories | Description | → Page/Internet |
|---|--|-----------------|
| [1] Cover DADS | <ul style="list-style-type: none"> For protection, to stop foreign parts or dirt getting into the guide The cover can be shortened as required by the customer | 47 |
| [2] Shock absorber retainer DADP | <ul style="list-style-type: none"> Attachment for the shock absorber For positioning and cushioning the intermediate position | 50 |
| [3] Intermediate-position module DADM | With stop lever for the intermediate position | 48 |
| [4] Centring sleeve ZBH | For centring loads and attachments (centring sleeves are included in the scope of delivery of the mini slide) | 52 |
| [5] Proximity switch SME/SMT-10 | For position sensing. Can be integrated in the sensor slot, which means there is no projection | 53 |
| [6] Push-in fitting QSM | For connecting tubing with standard O.D. | 52 |
| [7] One-way flow control valve GRLA | For regulating speed | 52 |
| [8] Cushioning E | <ul style="list-style-type: none"> Elastic stop for medium loads at medium speed | 51 |
| [9] Cushioning P | <ul style="list-style-type: none"> Elastic stop for medium loads at medium speed | 51 |
| [10] Cushioning with stop P1 | Precision metal stop for small loads at low speed | 51 |
| [11] Reducing sleeve DAYH | For installing a smaller shock absorber. For applications in which the cushioning energy is between cushioning Y3 and P1 | 51 |
| [12] Shock absorber DYSW | → Page (shock absorber selection) | 51 |
| [13] Cushioning with shock absorber Y3 | For large loads and high speed. Ensures precise, metal-to-metal contact after the cushioning | 51 |

Type codes

| | | |
|-------------|---------------------------|--|
| 001 | Series | |
| DGSL | Mini slide, double-acting | |

| | | |
|------------|-------------|--|
| 002 | Size | |
| 4 | 4 | |
| 6 | 6 | |
| 8 | 8 | |
| 10 | 10 | |
| 12 | 12 | |
| 16 | 16 | |
| 20 | 20 | |
| 25 | 25 | |

| | | |
|------------|---------------|--|
| 003 | Stroke | |
| ... | 10 ... 200 | |

| | | |
|------------|----------------------|--|
| 004 | Clamping unit | |
| | None | |
| C | Attached | |

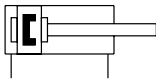
| | | |
|------------|-----------------------------|--|
| 005 | End-position locking | |
| | None | |
| E3 | With retracted piston rod | |

| | | |
|------------|---|--|
| 006 | Cushioning | |
| N | No cushioning | |
| P | Elastic cushioning rings/plates on both sides | |
| P1 | Elastomer cushioning, adjustable on both sides, with fixed stop | |
| Y3 | Shock absorber, self-adjusting, progressive, at both ends | |
| E | Elastomer cushioning, short, on both sides | |
| Y11 | Shock absorber, self-adjustable, progressive at both ends, with reducing sleeve | |

| | | |
|------------|-------------------------|--|
| 007 | Position sensing | |
| A | For proximity sensor | |

Data sheet

Function



- \varnothing - Size
4 ... 25

- l - Stroke length
10 ... 200 mm

Sets of wearing parts

→ Page 45



| General technical data | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | |
|------------------------|-------|---|-------|---|-----|---|------|----|----|--|
| Size | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | |
| Pneumatic connection | | M3 | | | M5 | | G1/8 | | | |
| Design | | Scotch yoke system | | | | | | | | |
| Guide | | Ball bearing cage guide | | | | | | | | |
| Type of mounting | | Via through-hole With female thread | | | | | | | | |
| Cushioning | P | Elastic cushioning without metal end position, at both ends | | | | | | | | |
| | E | Elastic cushioning without metal end position, at both ends, short design | | | | | | | | |
| | P1 | Elastic cushioning with metal end position, at both ends, adjustable | | | | | | | | |
| | Y3 | - | | | | Progressive shock absorber, at both ends | | | | |
| | Y11 | - | | | | Progressive shock absorber with reducing sleeve, at both ends | | | | |
| | N | No cushioning | | | | | | | | |
| Position sensing | | Via proximity switch | | | | | | | | |
| Mounting position | | Any | | | | | | | | |
| Max. advancing speed | [m/s] | 0.5 | | | 0.8 | | | | | |
| Max. retracting speed | [m/s] | 0.5 | | | 0.8 | | | | | |
| Repetition accuracy | P1/Y3 | [mm] | ±0.01 | | | | | | | |
| | P | [mm] | 0.3 | | | | | | | |

| Operating and environmental conditions | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|--|-------|--|------|---|----|-----|----|----|----|
| Size | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
| Operating medium | | Compressed air to ISO 8573-1:2010 [7:4:4] | | | | | | | |
| Note on the operating/pilot medium | | Lubricated operation possible (in which case lubricated operation will always be required) | | | | | | | |
| Min. operating pressure | [MPa] | 0.25 | 0.15 | | | 0.1 | | | |
| | [bar] | 2.5 | 1.5 | | | 1 | | | |
| Max. operating pressure ¹⁾ | [MPa] | 0.8 | | | | | | | |
| | [bar] | 8 | | | | | | | |
| Ambient temperature ²⁾ | [°C] | 0 ... +60 | | | | | | | |

1) Note max. operating pressure in combination with the intermediate-position module DADM-EP → Internet: dadm

2) Note operating range of proximity switches

| Piston diameter, forces and impact energy | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | |
|--|------|------|-------|------|------|------|------|------|------|------|
| Size | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | |
| Piston \varnothing | [mm] | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 32 | |
| Theoretical force at 0.6 MPa (6 bar), advancing | [N] | 17 | 30 | 47 | 68 | 121 | 188 | 295 | 483 | |
| Theoretical force at 0.6 MPa (6 bar), retracting | [N] | 13 | 23 | 40 | 51 | 104 | 158 | 247 | 415 | |
| Impact energy in the end positions | P, E | [Nm] | 0.015 | 0.05 | 0.08 | 0.12 | 0.25 | 0.35 | 0.45 | 0.55 |
| | P1 | [Nm] | 0.005 | 0.02 | 0.03 | 0.04 | 0.06 | 0.12 | 0.2 | 0.25 |
| | Y3 | [Nm] | - | - | 0.8 | 1.3 | 2.5 | 4 | 8 | 12 |
| | 1) | [Nm] | - | - | - | 0.8 | 1.3 | 2.5 | 4 | 8 |

1) With reducing sleeve and next smaller shock absorber.

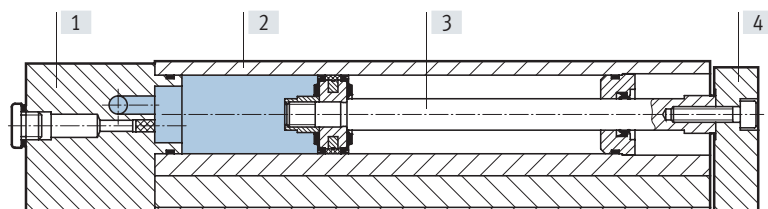
Data sheet

| Weight [g] | | | | | | | | | |
|--|--------|-----|-----|-----|-----|------|------|------|------|
| Size | Stroke | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
| Product weight without cushioning component | | | | | | | | | |
| | 10 | 82 | 158 | 235 | 396 | 604 | 896 | 1535 | 2520 |
| | 20 | 93 | 179 | 263 | 434 | 660 | 954 | 1649 | 2670 |
| | 30 | 104 | 197 | 289 | 470 | 711 | 1008 | 1746 | 2824 |
| | 40 | – | 215 | 313 | 507 | 762 | 1072 | 1857 | 2983 |
| | 50 | – | 232 | 370 | 548 | 813 | 1143 | 1991 | 3137 |
| | 80 | – | – | 454 | 727 | 1112 | 1365 | 2295 | 4019 |
| | 100 | – | – | – | 813 | 1229 | 1712 | 2921 | 4519 |
| | 150 | – | – | – | – | 1499 | 2034 | 3620 | 5344 |
| | 200 | – | – | – | – | – | – | 4248 | 6139 |
| Moving mass without cushioning component | | | | | | | | | |
| | 10 | 31 | 68 | 101 | 163 | 256 | 403 | 660 | 998 |
| | 20 | 34 | 76 | 111 | 180 | 279 | 432 | 710 | 1052 |
| | 30 | 38 | 83 | 121 | 194 | 299 | 459 | 750 | 1115 |
| | 40 | – | 90 | 130 | 208 | 320 | 486 | 801 | 1181 |
| | 50 | – | 99 | 152 | 226 | 340 | 519 | 858 | 1244 |
| | 80 | – | – | 185 | 299 | 456 | 618 | 998 | 1567 |
| | 100 | – | – | – | 334 | 507 | 776 | 1254 | 1761 |
| | 150 | – | – | – | – | 614 | 910 | 1566 | 2102 |
| | 200 | – | – | – | – | – | – | 1807 | 2432 |
| Cushioning component | | | | | | | | | |
| | P | 2 | 3.6 | 6 | 14 | 23 | 45.6 | 82.4 | 106 |
| | E | 1 | 2 | 3 | 9 | 12 | 15 | 31 | 40 |
| | P1 | 1.6 | 3 | 5 | 12 | 19.7 | 39.6 | 77.3 | 104 |
| | Y3 | – | – | 6 | 11 | 21 | 42 | 67 | 91 |
| | 1) | – | – | – | 18 | 33 | 52 | 91 | 131 |

1) With reducing sleeve and next smaller shock absorber.

Materials

Sectional view

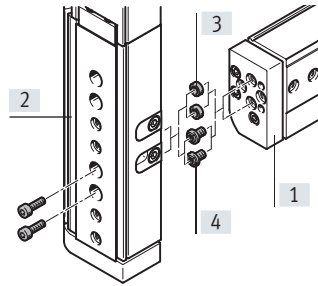
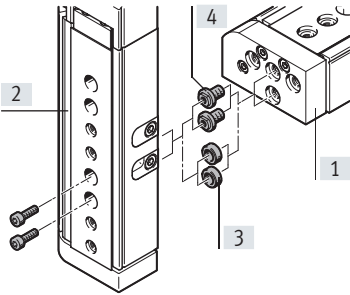


| Mini slide | |
|-------------------|---|
| [1] Cover | Anodised aluminium |
| [2] Housing | Anodised aluminium |
| [3] Piston rod | High-alloy steel |
| [4] Yoke plate | Anodised aluminium |
| – Guide | Tempered steel |
| – Seals | Thermoplastic rubber, hydrogenated nitrile rubber, nitrile rubber |
| Note on materials | Free of copper and PTFE |

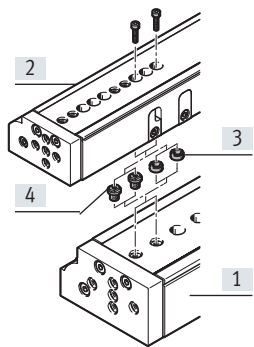
Data sheet

Possible combinations without adapter plate

Pick and place

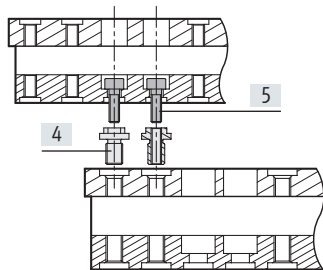


Piggy-back assembly



- [3] Centring sleeve ZBH
- [4] Connector sleeve ZBV

Mounting example with connector sleeve ZBV



- [4] Connector sleeve ZBV²⁾
- [5] Screw

| | | [1] Basic drive | | | | | | | | |
|------------------|----|-----------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | | Size | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
| [2] Add-on drive | 4 | | 2x M3x7 2x ZBH-5 ¹⁾ | 2x M3x10 2x ZBH-5 ¹⁾ | ZBV-M4-7 ²⁾ | ZBV-M4-7 ²⁾ | - | - | - | - |
| | 6 | | - | 2x M3x10 2x ZBH-5 ¹⁾ | ZBV-M4-7 ²⁾ | ZBV-M4-7 ²⁾ | - | - | - | - |
| | 8 | | - | - | 2x M4x12 2x ZBH-7 ¹⁾ | 2x M4x12 2x ZBH-7 ¹⁾ | ZBV-M5-7 ²⁾ | ZBV-M5-7 ²⁾ | - | - |
| | 10 | | - | - | - | 2x M4x14 2x ZBH-7 ¹⁾ | ZBV-M5-7 ²⁾ | ZBV-M5-7 ²⁾ | - | - |
| | 12 | | - | - | - | - | 2x M5x14 2x ZBH-7 ¹⁾ | 2x M5x16 2x ZBH-7 ¹⁾ | ZBV-M6-9 ²⁾ | ZBV-M6-9 ²⁾ |
| | 16 | | - | - | - | - | - | 2x M5x18 2x ZBH-7 ¹⁾ | ZBV-M6-9 ²⁾ | ZBV-M6-9 ²⁾ |
| | 20 | | - | - | - | - | - | - | 2x M6x20 2x ZBH-9 ¹⁾ | 2x M6x20 2x ZBH-9 ¹⁾ |
| | 25 | | - | - | - | - | - | - | - | 2x M6x30 2x ZBH-9 ¹⁾ |

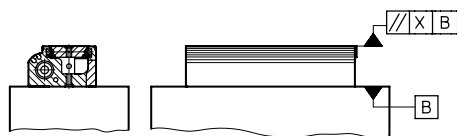
1) Centring sleeves ZBH are included in the scope of delivery of the mini slide DGSL

2) Connector sleeves ZBV → page 52

Data sheet

Parallelism [mm]

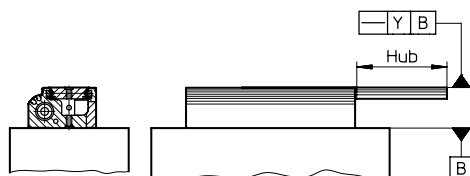
The term parallelism refers to the accuracy of alignment between the mounting surface and the slide surface.



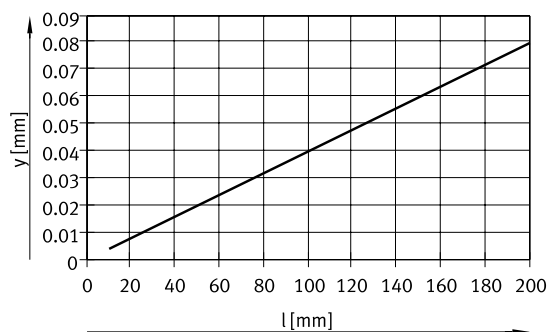
| Size | Stroke [mm] | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|---------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Parallelism X | 10 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 20 | 0.02 | 0.02 | 0.02 | 0.02 | 0.025 | 0.025 | 0.025 | 0.025 |
| | 30 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.03 | 0.03 |
| | 40 | - | 0.025 | 0.025 | 0.025 | 0.025 | 0.03 | 0.035 | 0.035 |
| | 50 | - | 0.03 | 0.03 | 0.03 | 0.03 | 0.035 | 0.035 | 0.04 |
| | 80 | - | - | 0.035 | 0.035 | 0.035 | 0.04 | 0.04 | 0.045 |
| | 100 | - | - | - | 0.045 | 0.045 | 0.05 | 0.05 | 0.055 |
| | 150 | - | - | - | - | - | 0.075 | 0.075 | 0.08 |
| 200 | - | - | - | - | - | - | - | 0.08 | |

Linearity [mm]

The term linearity refers to the accuracy of alignment between the mounting surface and the slide surface as a function of the stroke.



Linear travel accuracy y as a function of stroke length l



Data sheet

Adjustable end-position range

Coarse adjustment of the advanced end position

With the mini slide DGSL, the advanced fixed stop can be relocated by swapping it with the cover.

This permits a stroke reduction down to the next but one smaller standard stroke through a combination of coarse and precision adjustments.

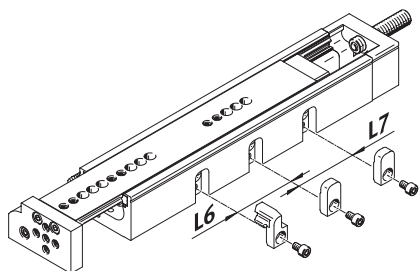
Advantages:

- Can be flexibly adapted to the application
- Integrated, which means reduced conversion effort and costs
- Large setting range



Note

Removal of the fixed stops can severely damage the mini slide DGSL.



| Size Stroke [mm] | 4 | | 6 | | 8 | | 10 | | 12 | | 16 | | 20 | | 25 | |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | L6 | L7 | L6 | L7 | L6 | L7 | L6 | L7 | L6 | L7 | L6 | L7 | L6 | L7 | L6 | L7 |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 10 | - | 14 | - | 10 | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 10 | - | 14 | - | 16 | - | - | - | - | - | - | - | - | - | - | - |
| 40 | - | - | 14 | - | 16 | - | - | - | - | - | - | - | - | - | - | - |
| 50 | - | - | 14 | 14 | 16 | - | - | - | - | - | - | - | - | - | - | - |
| 80 | - | - | - | - | 16 | 16 | 24 | - | 29 | - | 35 | - | - | - | 55 | - |
| 100 | - | - | - | - | - | - | 24 | 24 | 29 | - | 35 | - | 44 | - | 55 | - |
| 150 | - | - | - | - | - | - | - | - | 29 | 29 | 35 | - | 44 | - | 55 | - |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | 44 | 44 | 55 | - |

Example:

DGSL-12-150-...

Max. stroke = 150 mm

By relocating the fixed stop
by dimension L6:

Stroke = 150 - 29 = 121 mm

By relocating the fixed stop
by dimension L6 and L7:

Stroke = 150 - 29 - 29 = 92 mm

The stroke can also be reduced
through a precision adjustment:

Stroke = 150 - 29 - 29 - 29
= 63 mm

Precision adjustment of the advanced
and retracted end position

→ page 11

Data sheet

Adjustable end-position range

Precision adjustment of the advanced and retracted end position

Precision adjustment of the required stroke reduction is possible using the cushioning components (on the slide and in the end cap).

Advantages:

- Precision adjustment is accurately fixed by the clamping component
- No readjustment required, position is fully retained under lock and load
- Quick and easy adjustment, only one tool required

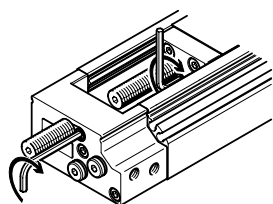
Step 1:
Loosen the clamping component

Step 2:
Position the slide by hand in the required end position

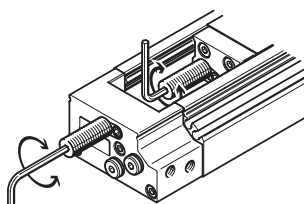
Step 3:
Turn the stop element with an Allen key until the end position is reached.

Step 4:
Tighten the clamping component

Step 1



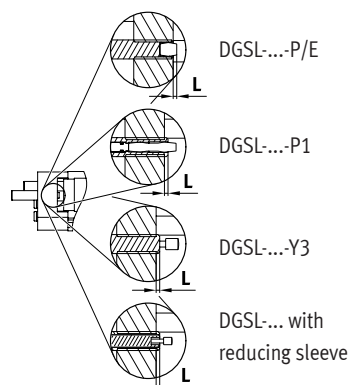
Step 2 ... 4



| Adjustable end-position range [mm] per end position/stroke reduction | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|--|----|-------|-------|-------|-------|-------|-------|-------|-------|
| Front end position | | | | | | | | | |
| With cushioning | P | -14.5 | -16.5 | -19.5 | -27.5 | -29 | -37.5 | -50.5 | -55 |
| | E | -4.5 | -5 | -4.5 | -13 | -9 | -3.5 | -6.5 | -11.5 |
| | P1 | -14.5 | -16.5 | -19.5 | -27.5 | -29 | -37.5 | -50.5 | -55 |
| | Y3 | - | - | -15 | -24 | -29 | -36.5 | -44 | -56 |
| 1) | - | - | - | -24 | -29 | -36.5 | -44 | -56 | |
| Rear end position | | | | | | | | | |
| With cushioning | P | -13.5 | -15 | -18.5 | -20 | -25.5 | -39.5 | -49.5 | -49 |
| | E | -3.5 | -3.5 | -3.5 | -5.5 | -5.5 | -5.5 | -5.5 | -5.5 |
| | P1 | -13.5 | -15 | -18.5 | -20 | -25.5 | -39.5 | -49.5 | -49 |
| | Y3 | - | - | -14 | -15 | -25.5 | -38.5 | -42 | -51.5 |
| 1) | - | - | - | -15 | -25.5 | -38.5 | -42 | -51.5 | |

1) With reducing sleeve and next smaller shock absorber.

Note
The distance L of the cushioning component (→ operating instructions) are not permitted to fall below (factory setting).



Note
The setting range of the advanced and retracted end position is restricted when using the cushioning type "E".

Data sheet

Shock absorber selection

Payload load m as a function of impact velocity v

With the mini slide DGSL, shock absorbers can be replaced and the cushioning behaviour can thus be influenced (depending on the payload).

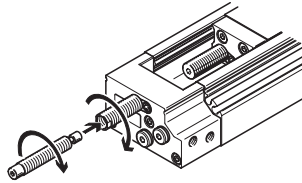
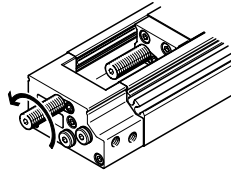
This is done by removing the existing shock absorbers on the DGSL and replacing them with a smaller shock absorber as appropriate to the application.
(→ description below)

Graphs for selecting a suitable shock absorber as a function of the mounting position of the mini slide
→ from page 13

Ordering data
Shock absorbers DYSW, DYEY and reducing sleeve DAYH
→ Page 51

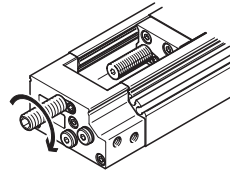
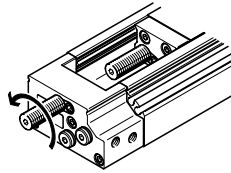
For smaller loads:

The next smaller shock absorber DYSW can be installed with the help of the reducing sleeve DAYH.



For very small loads:

The shock absorber DYEY can be installed.



Selection example:

Current drive:

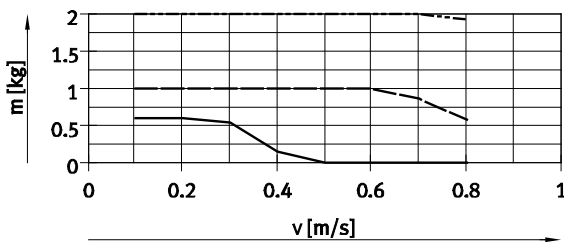
Mini slide: DGSL-10-...-Y3-A

Assuming:

Payload: 500 g

Impact velocity: 0.4 m/s

Mounting position: horizontal



- DYSW-5-8 (cushioning Y3)
- DYSW-4-6 with DAYH-4 (cushioning Y11)
- DYEY-M8-Y1F

Result:

The first cushioning curve, which is located above the point of intersection, is the most suitable for this case.

Due to the low payload of less than one kilogram, the cushioning characteristics are greatly improved by replacing the shock absorber DYSW-5-8 integrated in the mini slide with the reducing sleeve DAYH-4 and the next smaller shock absorber DYSW-4-6.

Fundamentally, shock absorbers must be loaded.

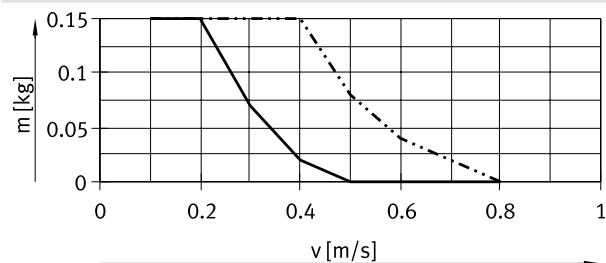
Since the shock absorber DYSW-4-6 is more fully utilised in this case, both the service life of the shock absorber and the cushioning characteristics are improved.

Data sheet

Shock absorber selection

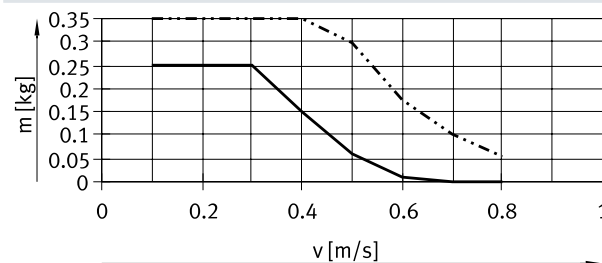
Payload m as a function of impact velocity v – horizontal mounting position

DGSL-4



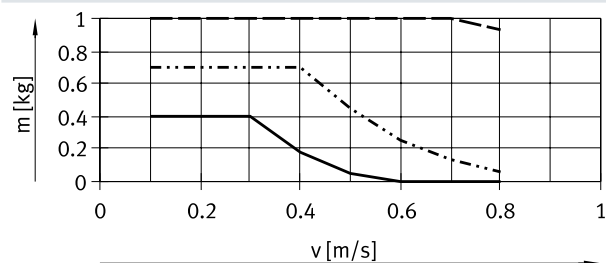
- DYEF-M4-Y1F (cushioning P1)
- DYEF-M4-Y1 (cushioning P)

DGSL-6



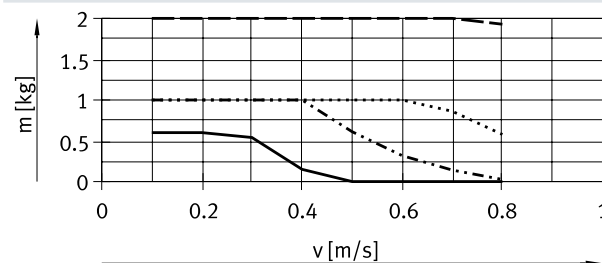
- DYEF-M5-Y1F (cushioning P1)
- DYEF-M5-Y1 (cushioning P)

DGSL-8



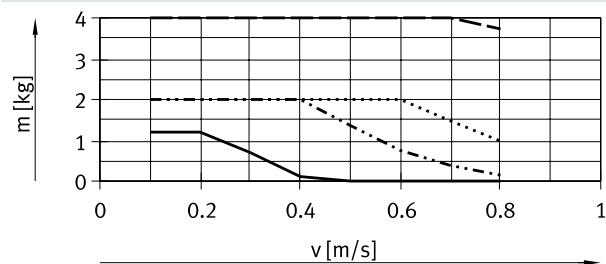
- DYEF-M6-Y1F (cushioning P1)
- DYEF-M6-Y1 (cushioning P)
- - - DYSW-4-6 (cushioning Y3)

DGSL-10



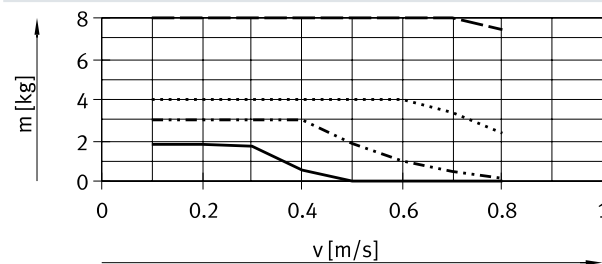
- DYEF-M8-Y1F (cushioning P1)
- DYEF-M8-Y1 (cushioning P)
- - - DYSW-5-8 (cushioning Y3)
- · - · - DYSW-4-6 with DAYH-4 (cushioning Y11)

DGSL-12



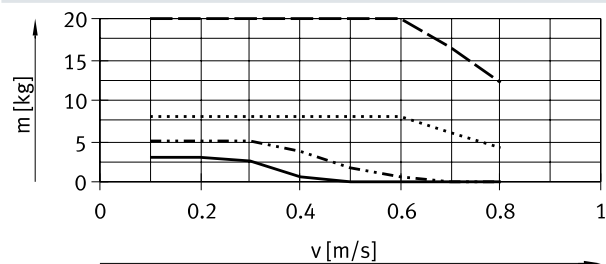
- DYEF-M10-Y1F (cushioning P1)
- DYEF-M10-Y1 (cushioning P)
- - - DYSW-7-10 (cushioning Y3)
- · - · - DYSW-5-8 with DAYH-5 (cushioning Y11)

DGSL-16



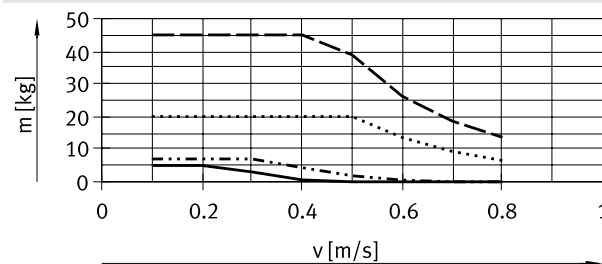
- DYEF-M12-Y1F (cushioning P1)
- DYEF-M12-Y1 (cushioning P)
- - - DYSW-8-14 (cushioning Y3)
- · - · - DYSW-7-10 with DAYH-7 (cushioning Y11)

DGSL-20



- DYEF-M14-Y1F (cushioning P1)
- DYEF-M14-Y1 (cushioning P)
- - - DYSW-10-17 (cushioning Y3)
- · - · - DYSW-8-14 with DAYH-8 (cushioning Y11)

DGSL-25



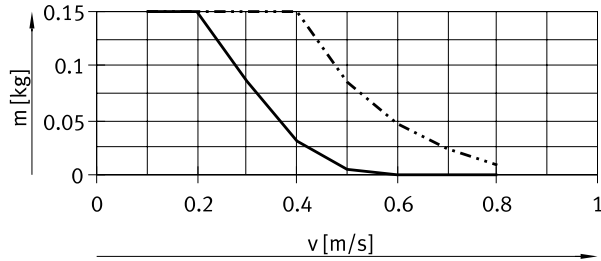
- DYEF-M16-Y1F (cushioning P1)
- DYEF-M16-Y1 (cushioning P)
- - - DYSW-12-20 (cushioning Y3)
- · - · - DYSW-10-17 with DAYH-10 (cushioning Y11)

Data sheet

Shock absorber selection

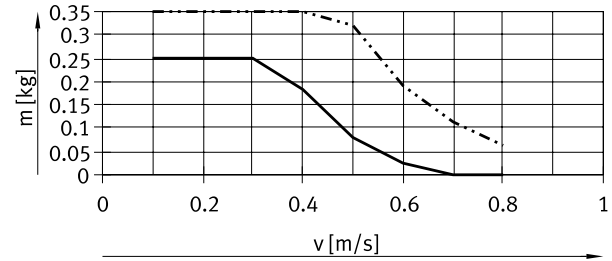
Payload m as a function of impact velocity v – vertical mounting position, payload moving upwards

DGSL-4



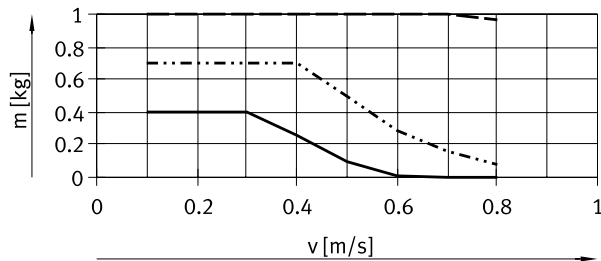
- DYEF-M4-Y1F (cushioning P1)
- - - - - DYEF-M4-Y1 (cushioning P)

DGSL-6



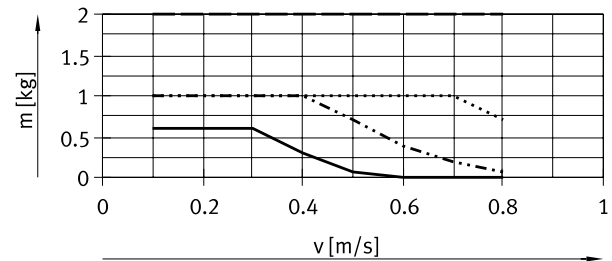
- DYEF-M5-Y1F (cushioning P1)
- - - - - DYEF-M5-Y1 (cushioning P)

DGSL-8



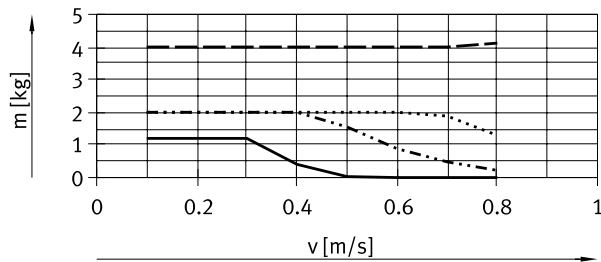
- DYEF-M6-Y1F (cushioning P1)
- - - - - DYEF-M6-Y1 (cushioning P)
- · - · - · DYSW-4-6 (cushioning Y3)

DGSL-10



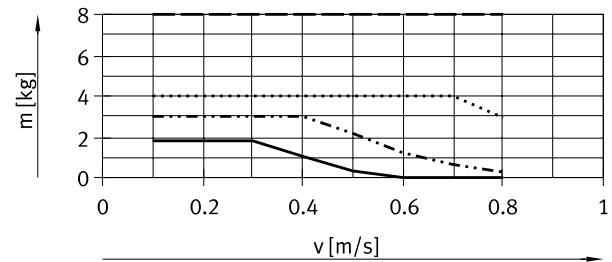
- DYEF-M8-Y1F (cushioning P1)
- - - - - DYEF-M8-Y1 (cushioning P)
- · - · - · DYSW-5-8 (cushioning Y3)
- DYSW-4-6 with DAYH-4 (cushioning Y11)

DGSL-12



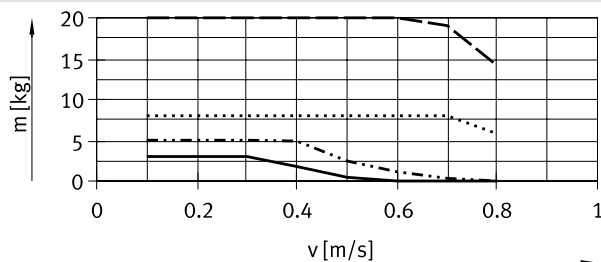
- DYEF-M10-Y1F (cushioning P1)
- - - - - DYEF-M10-Y1 (cushioning P)
- · - · - · DYSW-7-10 (cushioning Y3)
- DYSW-5-8 with DAYH-5 (cushioning Y11)

DGSL-16



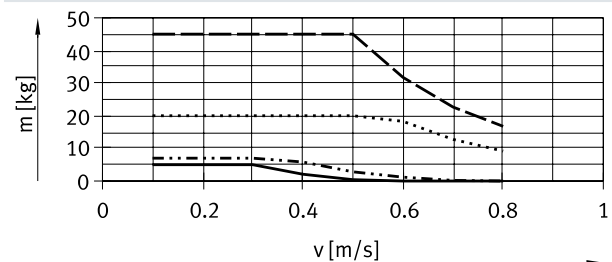
- DYEF-M12-Y1F (cushioning P1)
- - - - - DYEF-M12-Y1 (cushioning P)
- · - · - · DYSW-8-14 (cushioning Y3)
- DYSW-7-10 with DAYH-7 (cushioning Y11)

DGSL-20



- DYEF-M14-Y1F (cushioning P1)
- - - - - DYEF-M14-Y1 (cushioning P)
- · - · - · DYSW-10-17 (cushioning Y3)
- DYSW-8-14 with DAYH-8 (cushioning Y11)

DGSL-25



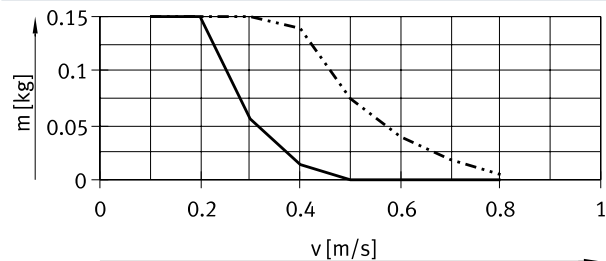
- DYEF-M16-Y1F (cushioning P1)
- - - - - DYEF-M16-Y1 (cushioning P)
- · - · - · DYSW-12-20 (cushioning Y3)
- DYSW-10-17 with DAYH-10 (cushioning Y11)

Data sheet

Shock absorber selection

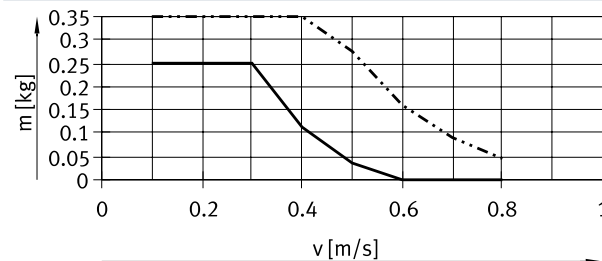
Payload m as a function of impact velocity v – vertical mounting position, payload moving downwards

DGSL-4



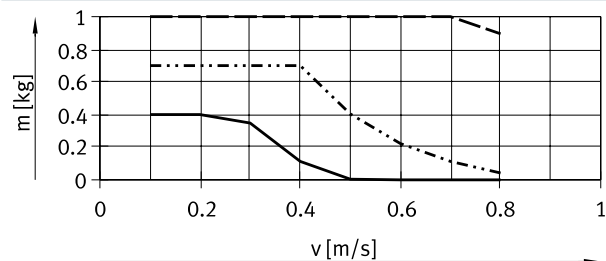
- DYEF-M4-Y1F (cushioning P1)
- DYEF-M4-Y1 (cushioning P)

DGSL-6



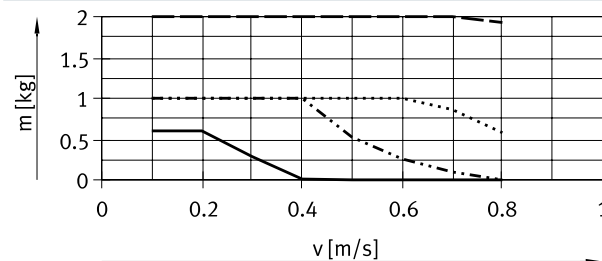
- DYEF-M5-Y1F (cushioning P1)
- DYEF-M5-Y1 (cushioning P)

DGSL-8



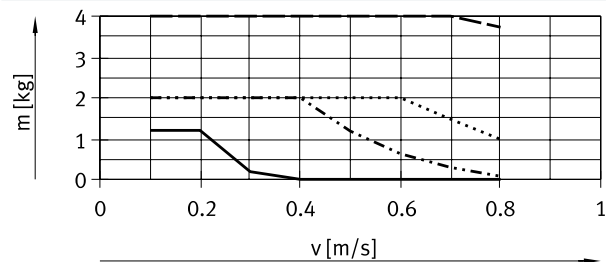
- DYEF-M6-Y1F (cushioning P1)
- DYEF-M6-Y1 (cushioning P)
- - - DYSW-4-6 (cushioning Y3)

DGSL-10



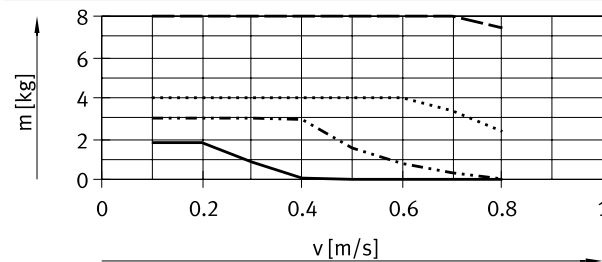
- DYEF-M8-Y1F (cushioning P1)
- DYEF-M8-Y1 (cushioning P)
- - - DYSW-5-8 (cushioning Y3)
- DYSW-4-6 with DAYH-4 (cushioning Y11)

DGSL-12



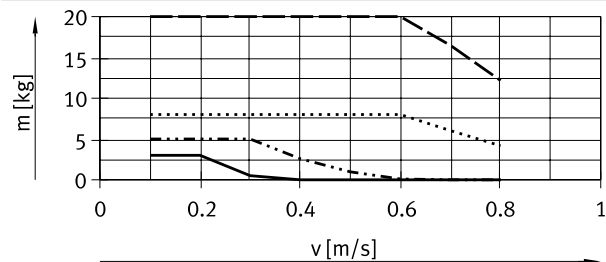
- DYEF-M10-Y1F (cushioning P1)
- DYEF-M10-Y1 (cushioning P)
- - - DYSW-7-10 (cushioning Y3)
- DYSW-5-8 with DAYH-5 (cushioning Y11)

DGSL-16



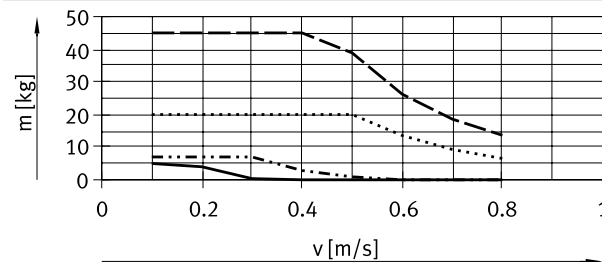
- DYEF-M12-Y1F (cushioning P1)
- DYEF-M12-Y1 (cushioning P)
- - - DYSW-8-14 (cushioning Y3)
- DYSW-7-10 with DAYH-7 (cushioning Y11)

DGSL-20



- DYEF-M14-Y1F (cushioning P1)
- DYEF-M14-Y1 (cushioning P)
- - - DYSW-10-17 (cushioning Y3)
- DYSW-8-14 with DAYH-8 (cushioning Y11)

DGSL-25

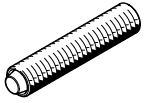


- DYEF-M16-Y1F (cushioning P1)
- DYEF-M16-Y1 (cushioning P)
- - - DYSW-12-20 (cushioning Y3)
- DYSW-10-17 with DAYH-10 (cushioning Y11)

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P/E – horizontal mounting position

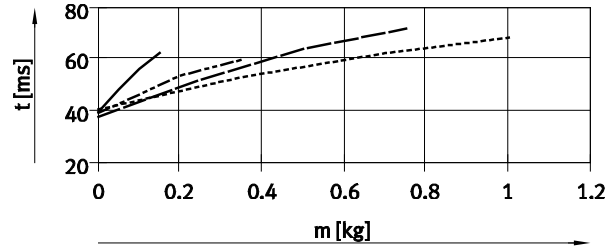


The values in the graphs are determined by calculation.
 The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
 → page 19

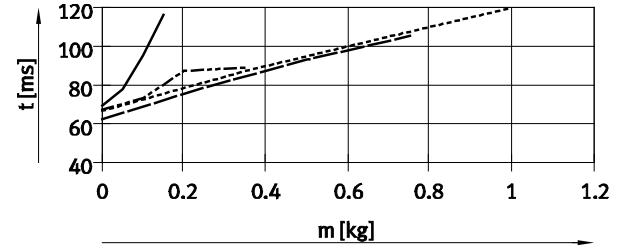
Advancing

Stroke 10 mm, size 4 ... 10

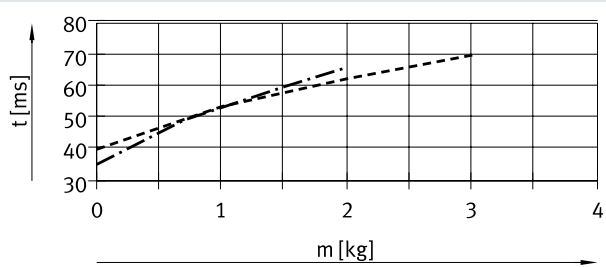


Retracting

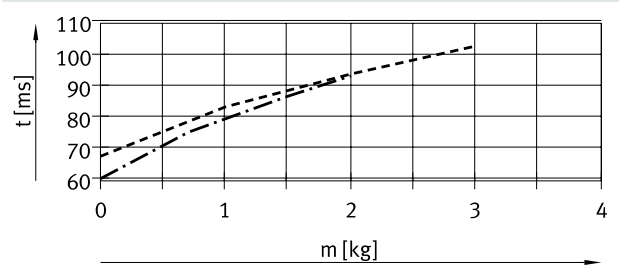
Stroke 10 mm, size 4 ... 10



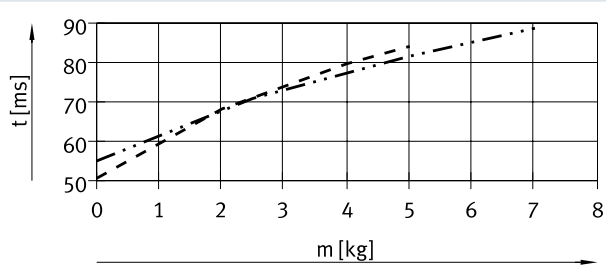
Stroke 10 mm, size 12 ... 16



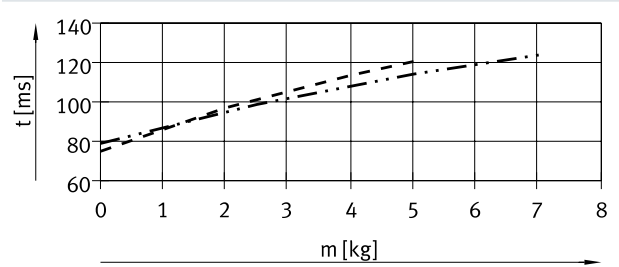
Stroke 10 mm, size 12 ... 16



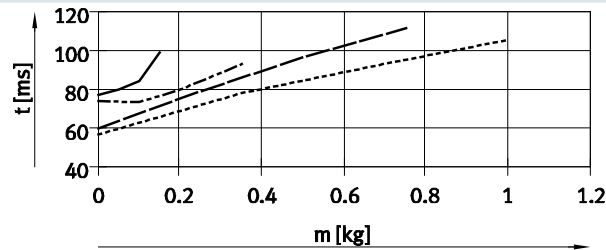
Stroke 10 mm, size 20 ... 25



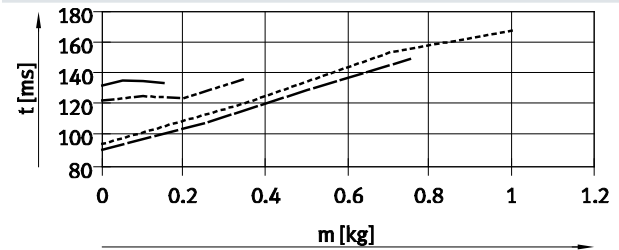
Stroke 10 mm, size 20 ... 25



Stroke 30 mm, size 4 ... 10



Stroke 30 mm, size 4 ... 10

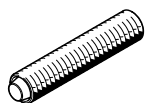


- DGSL-4
- DGSL-6
- DGSL-8
- DGSL-10
- . - . - DGSL-12
- DGSL-16
- DGSL-20
- . - . - DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P/E – horizontal mounting position

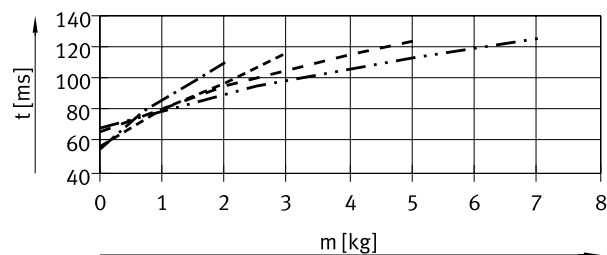


The values in the graphs are determined by calculation.
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
→ page 19

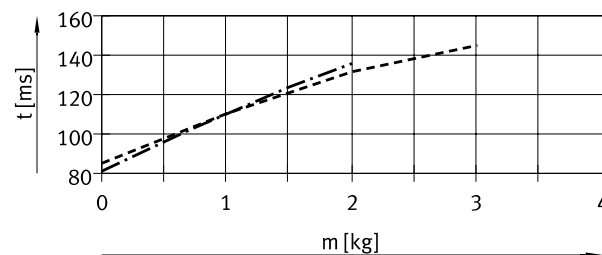
Advancing

Stroke 30 mm, size 12 ... 25

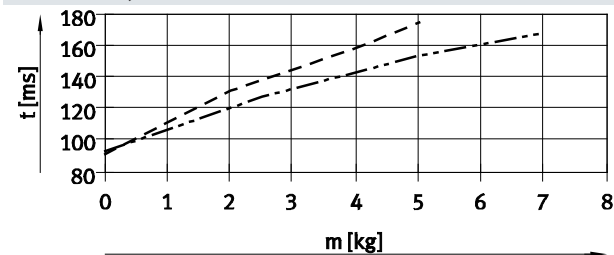


Retracting

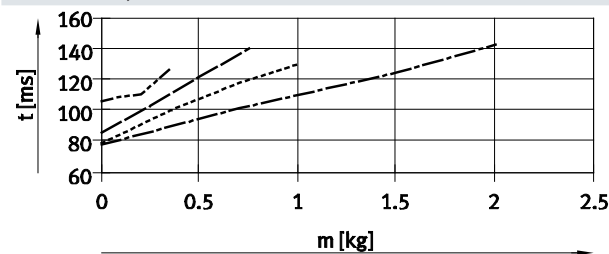
Stroke 30 mm, size 12 ... 16



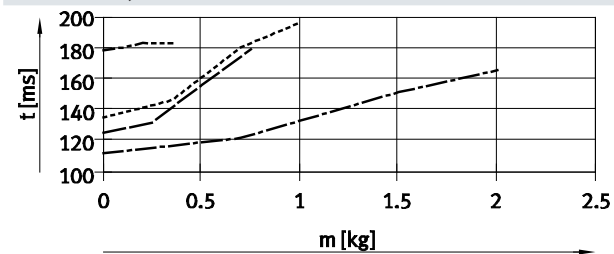
Stroke 30 mm, size 20 ... 25



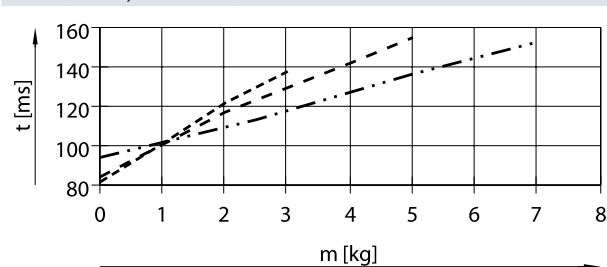
Stroke 50 mm, size 6 ... 12



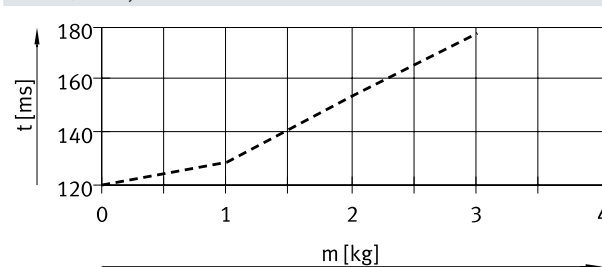
Stroke 50 mm, size 6 ... 12



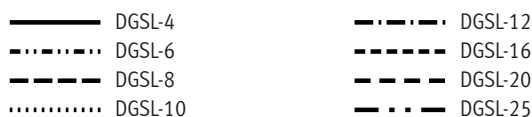
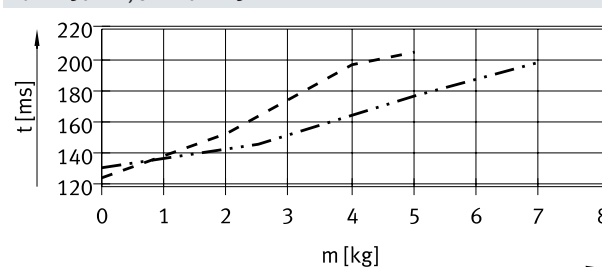
Stroke 50 mm, size 16 ... 25



Stroke 50 mm, size 16



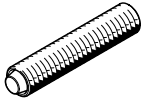
Stroke 50 mm, size 20 ... 25



Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P/E – horizontal mounting position

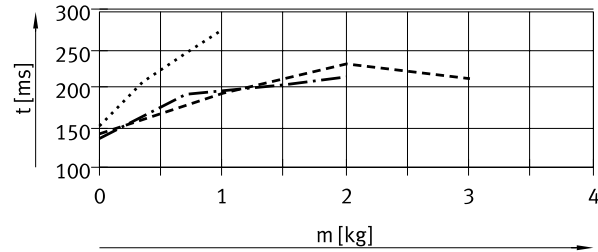


The values in the graphs are determined by calculation.
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Vertical mounting position
→ page 19

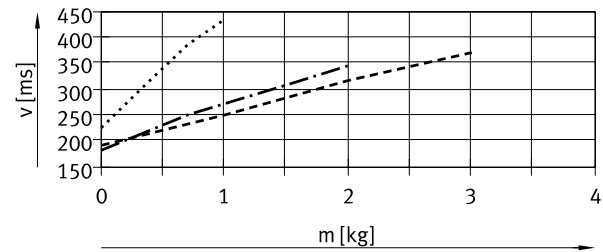
Advancing

Stroke 100 mm, size 10 ... 16

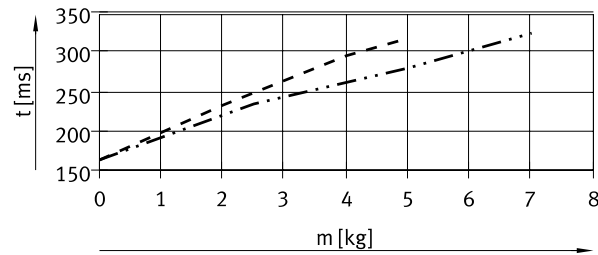


Retracting

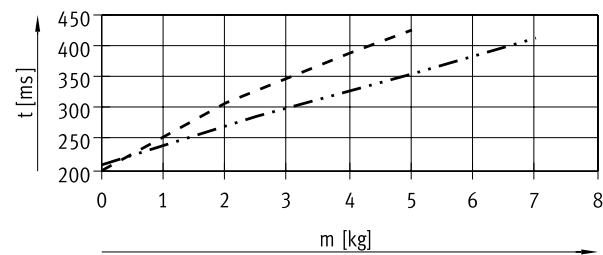
Stroke 100 mm, size 10 ... 16



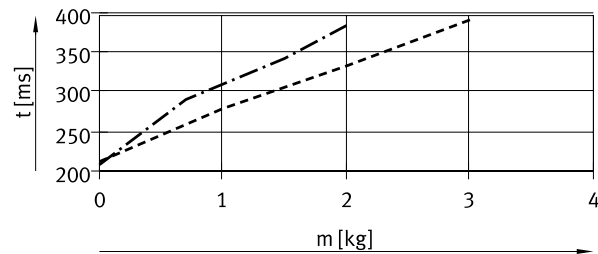
Stroke 100 mm, size 20 ... 25



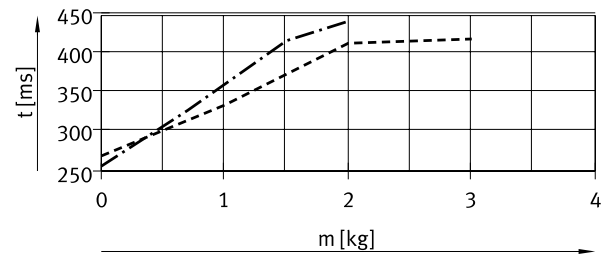
Stroke 100 mm, size 20 ... 25



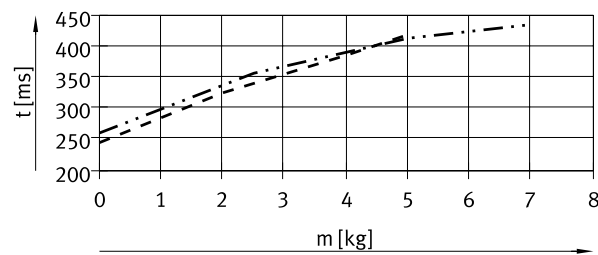
Stroke 150 mm, size 12 ... 16



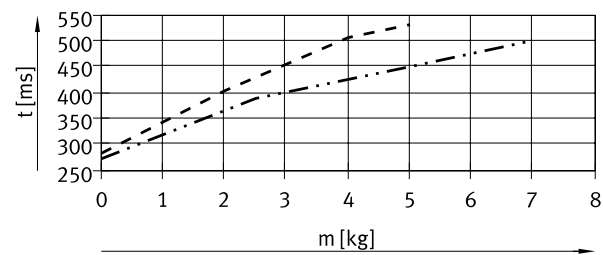
Stroke 150 mm, size 12 ... 16



Stroke 150 mm, size 20 ... 25



Stroke 150 mm, size 20 ... 25

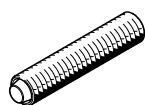


- DGSL-10
- . - . DGSL-12
- - - - DGSL-16
- - - - DGSL-20
- . - . DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P/E – horizontal mounting position

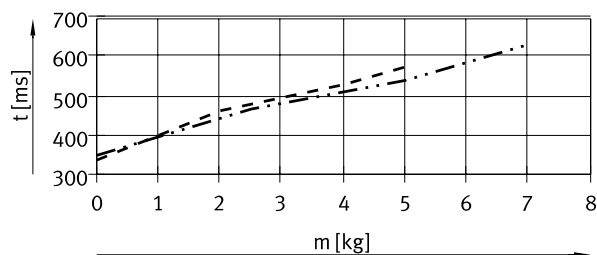


The values in the graphs are determined by calculation.
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Vertical mounting position
→ page 19

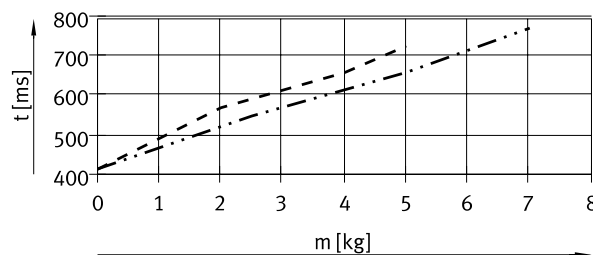
Advancing

Stroke 200 mm, size 20 ... 25



Retracting

Stroke 200 mm, size 20 ... 25



--- DGSL-20
- . - DGSL-25

Vertical mounting position

The travel times for a vertical mounting position are calculated by multiplying the data for a horizontal mounting position by a correction factor k_a (advancing) and k_r (retracting), see adjacent table.

Assuming:
Stroke = 200 mm
Size = 20
Payload = 3 kg
Calculated travel time t_h (horizontal),
see graph:

- Advancing = 500 ms
- Retracting = 600 ms

Calculated travel time t_v (vertical):

- Advancing: $t_v = t_h \times k_a$
 $t_s = 500 \text{ ms} \times 0.9 = 450 \text{ ms}$
- Retracting: $t_v = t_h \times k_r$
 $t_s = 600 \text{ ms} \times 1.1 = 660 \text{ ms}$

| Stroke [mm] | Size | Advancing (k_a) ¹⁾ | Retracting (k_r) |
|-------------|--------------------|-----------------------------------|----------------------|
| 10 | 4, 6, 8, 10 | 0.95 | 1.1 |
| | 12, 16, 20, 25 | 0.95 | 1.2 |
| 30 | 4, 6, 8, 10 | 0.95 | 1.1 |
| | 12, 16, 20, 25 | 0.95 | 1.2 |
| 50 | 6, 8, 10, 12 | 0.9 | 1.1 |
| | 16, 20, 25 | 1.1 | 1.2 |
| 100 | 10, 12, 16, 20, 25 | 1 | 1.1 |
| 150 | 12, 16, 20, 25 | 1 | 1.1 |
| 200 | 20, 25 | 0.9 | 1.1 |

1) Downward.

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P1 – horizontal mounting position

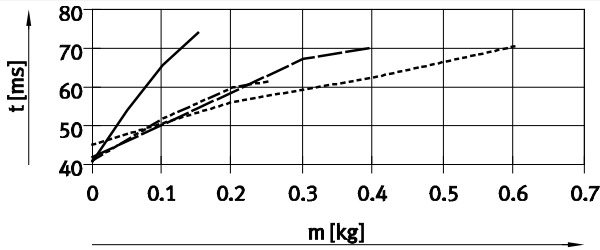


The values in the graphs are determined by calculation.
 The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
 → page 23

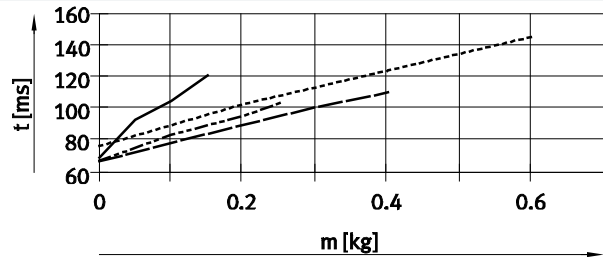
Advancing

Stroke 10 mm, size 4 ... 10

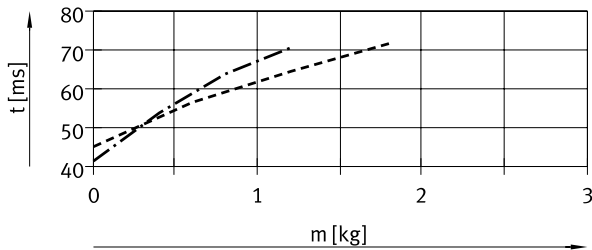


Retracting

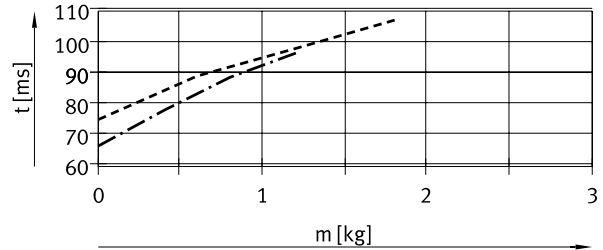
Stroke 10 mm, size 4 ... 10



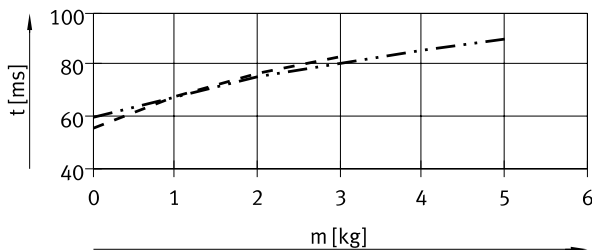
Stroke 10 mm, size 12 ... 16



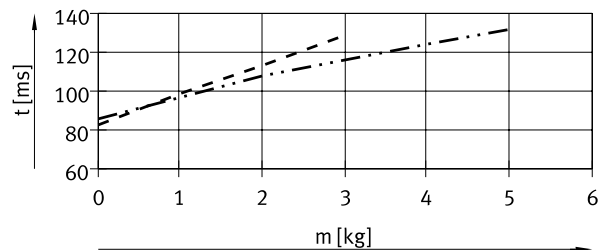
Stroke 10 mm, size 12 ... 16



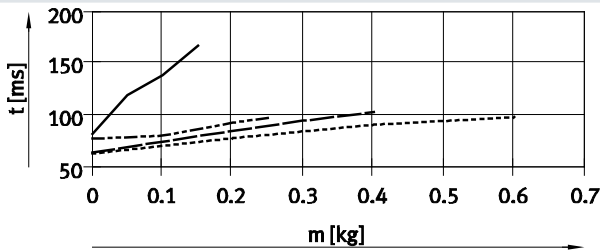
Stroke 10 mm, size 20 ... 25



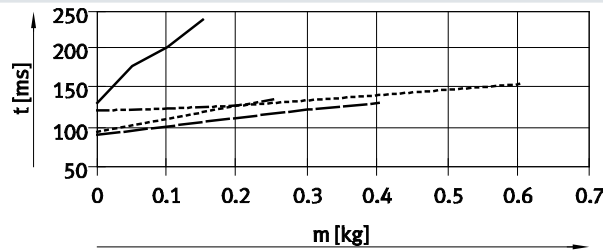
Stroke 10 mm, size 20 ... 25



Stroke 30 mm, size 4 ... 10



Stroke 30 mm, size 4 ... 10

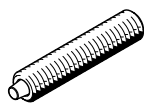


- DGSL-4
- - - - DGSL-6
- - - - DGSL-8
- DGSL-10
- · - · - DGSL-12
- - - - DGSL-16
- - - - DGSL-20
- · - · - DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P1 – horizontal mounting position

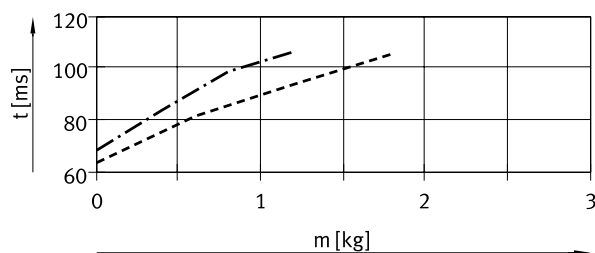


The values in the graphs are determined by calculation.
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
→ page 23

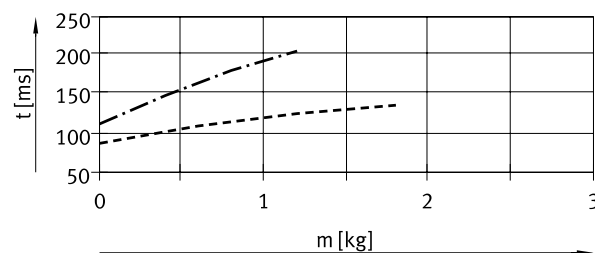
Advancing

Stroke 30 mm, size 12 ... 16

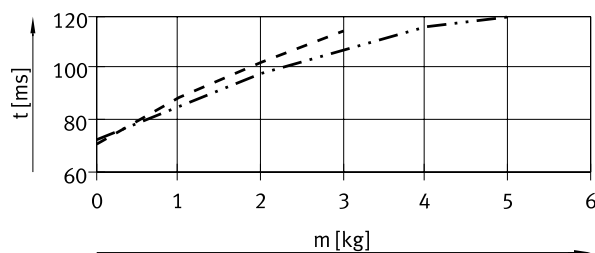


Retracting

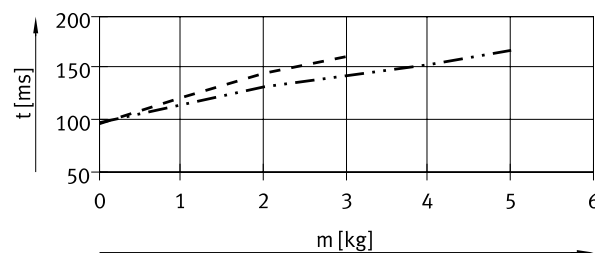
Stroke 30 mm, size 12 ... 16



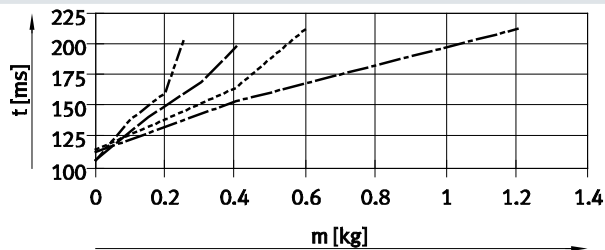
Stroke 30 mm, size 20 ... 25



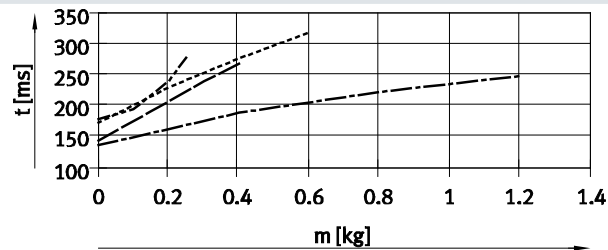
Stroke 30 mm, size 20 ... 25



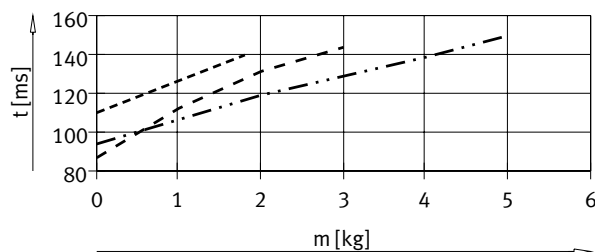
Stroke 50 mm, size 6 ... 12



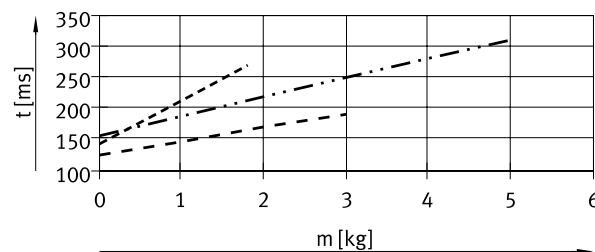
Stroke 50 mm, size 6 ... 12



Stroke 50 mm, size 16 ... 25



Stroke 50 mm, size 16 ... 25



- DGSL-6
- DGSL-8
- DGSL-10
- DGSL-12
- DGSL-16
- DGSL-20
- DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P1 – horizontal mounting position

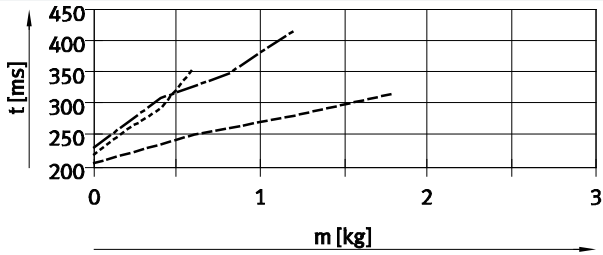


The values in the graphs are determined by calculation.
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
→ page 23

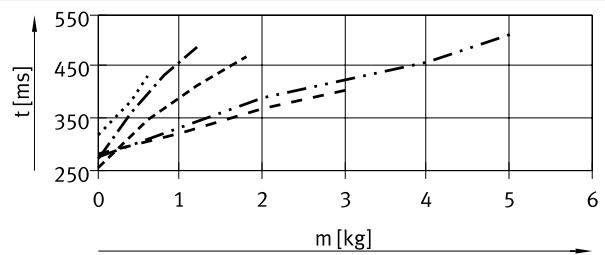
Advancing

Stroke 100 mm, size 10 ... 16

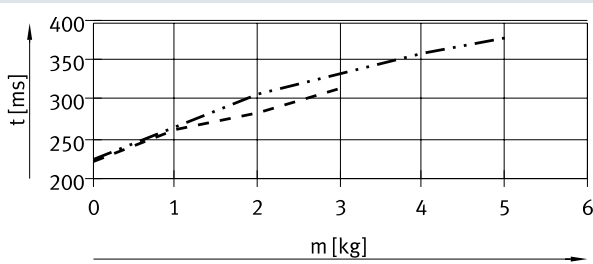


Retracting

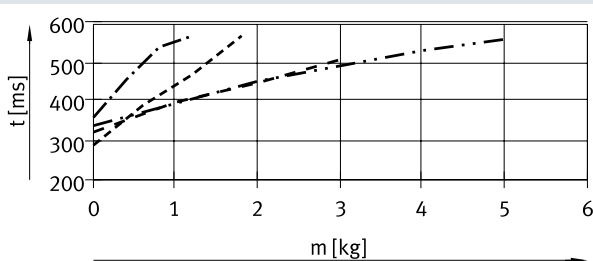
Stroke 100 mm, size 10 ... 25



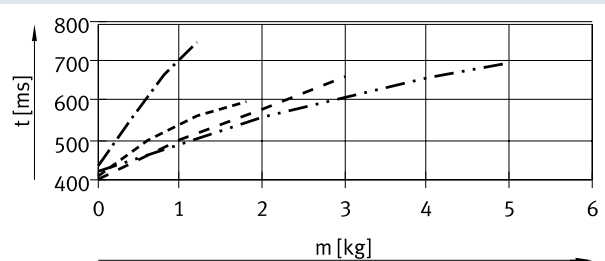
Stroke 100 mm, size 20 ... 25



Stroke 150 mm, size 12 ... 25



Stroke 150 mm, size 12 ... 25

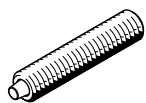


- DGSL-10
- · - · - DGSL-12
- - - - - DGSL-16
- - - - - DGSL-20
- · - · - DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning P1 – horizontal mounting position

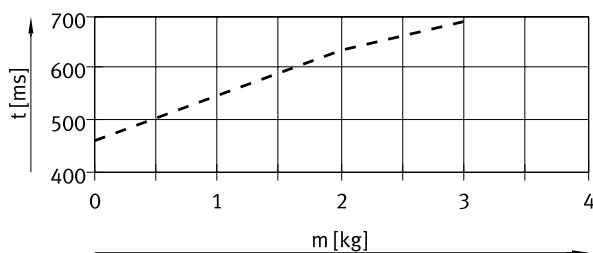


The values in the graphs are determined by calculation.
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
→ page 23

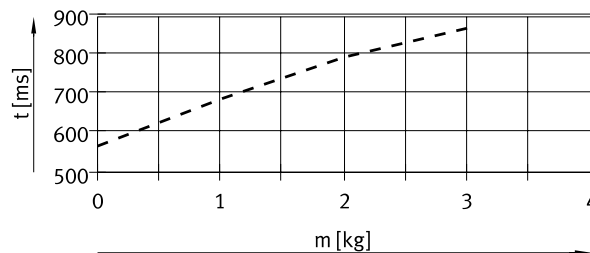
Advancing

Stroke 200 mm, size 20

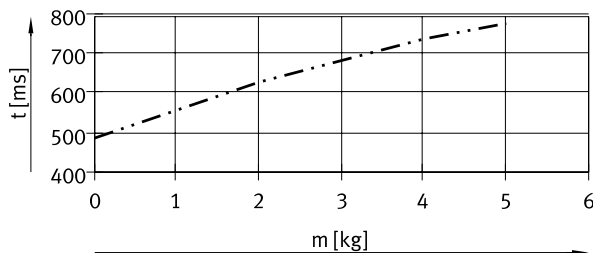


Retracting

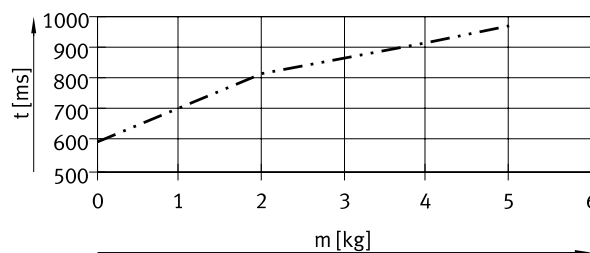
Stroke 200 mm, size 20



Stroke 200 mm, size 25



Stroke 200 mm, size 25



--- DGSL-20
- . - DGSL-25

Vertical mounting position

The travel times for a vertical mounting position are calculated by multiplying the data for a horizontal mounting position by a correction factor k_a (advancing) and k_r (retracting), see adjacent table.

Assuming:
Stroke = 200 mm
Size = 20
Payload = 2 kg
Calculated travel time t_h (horizontal), see graph:
– Advancing = 640 ms
– Retracting = 780 ms
Calculated travel time t_v (vertical):
– Advancing: $t_v = t_h \times k_a$
 $t_s = 640 \text{ ms} \times 0.9 = 576 \text{ ms}$
– Retracting: $t_v = t_h \times k_r$
 $t_s = 780 \text{ ms} \times 1.1 = 858 \text{ ms}$

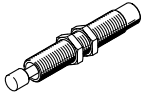
| Stroke [mm] | Size | Advancing (k_a) ¹⁾ | Retracting (k_r) |
|-------------|--------------------|-----------------------------------|----------------------|
| 10 | 4, 6, 8, 10 | 1 | 1.1 |
| | 12, 16, 20, 25 | 1.1 | 1.2 |
| 30 | 4, 6, 8, 10 | 1 | 1.1 |
| | 12, 16, 20, 25 | 1.1 | 1.2 |
| 50 | 6, 8, 10, 12 | 1 | 1.1 |
| | 16, 20, 25 | 0.9 | 1.1 |
| 100 | 10, 12, 16, 20, 25 | 0.95 | 1.1 |
| 150 | 12, 16, 20, 25 | 0.95 | 1.1 |
| 200 | 20, 25 | 0.9 | 1.1 |

1) Downward.

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning Y3 – horizontal mounting position



The values in the graphs are determined by calculation.

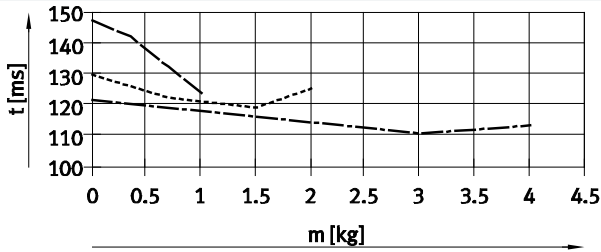
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position

→ page 25

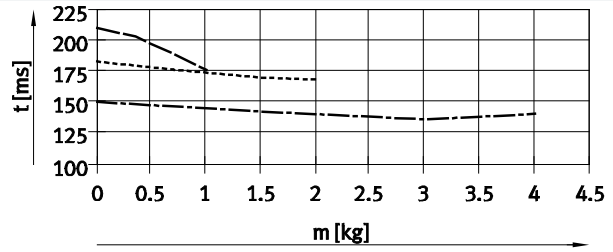
Advancing

Stroke 30 mm, size 8 ... 12

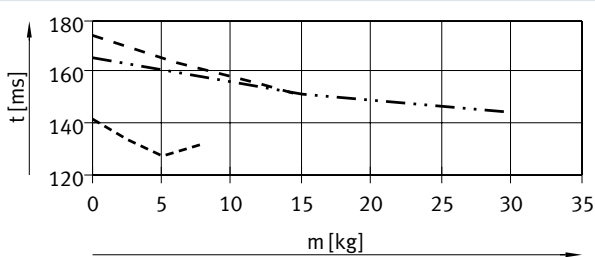


Retracting

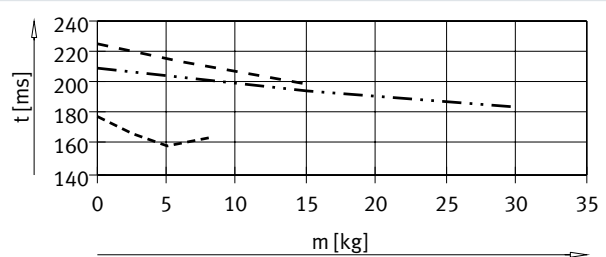
Stroke 30 mm, size 8 ... 12



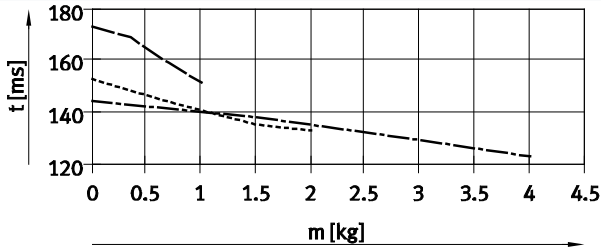
Stroke 30 mm, size 16 ... 25



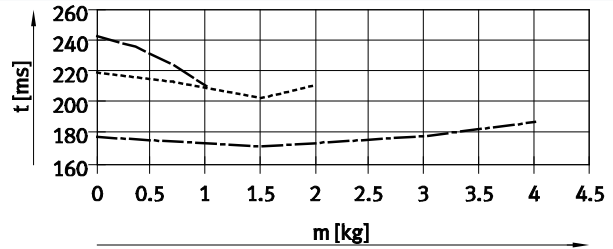
Stroke 30 mm, size 16 ... 25



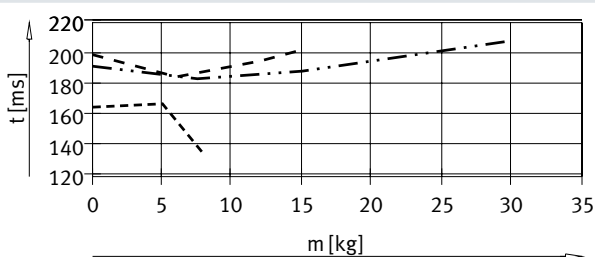
Stroke 50 mm, size 8 ... 12



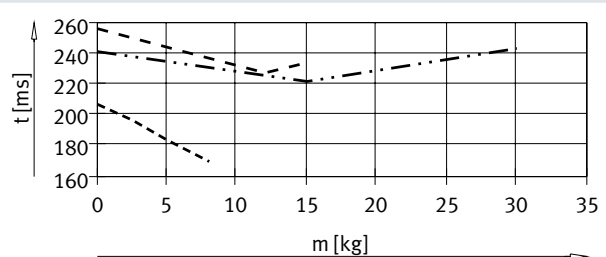
Stroke 50 mm, size 8 ... 12



Stroke 50 mm, size 16 ... 25



Stroke 50 mm, size 16 ... 25

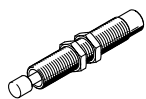


- DGSL-10
- - - - DGSL-12
- - - - DGSL-16
- - - - DGSL-20
- - - - DGSL-25

Data sheet

Shock absorber selection

Travel time t as a function of payload m and cushioning Y3 – horizontal mounting position

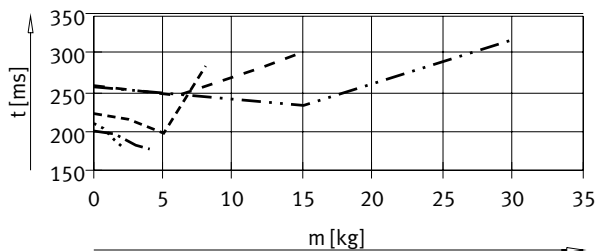


The values in the graphs are determined by calculation.
The travel time as a function of payload must not be reduced below the values shown, because the kinetic impact or residual energy in the end positions can result in damage to the drive.

Vertical mounting position
→ page 25

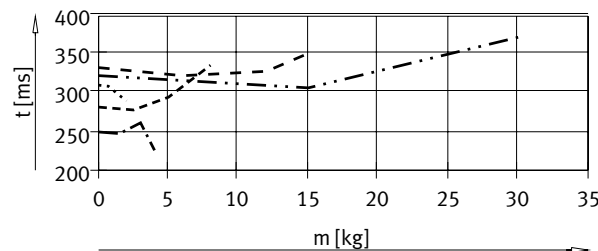
Advancing

Stroke 100 mm, size 10 ... 25

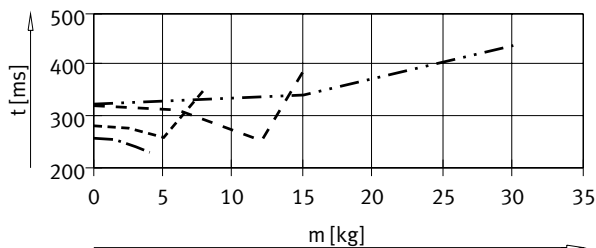


Retracting

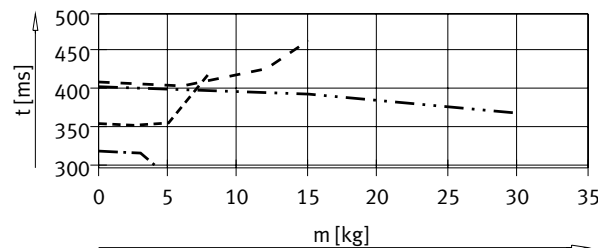
Stroke 100 mm, size 10 ... 25



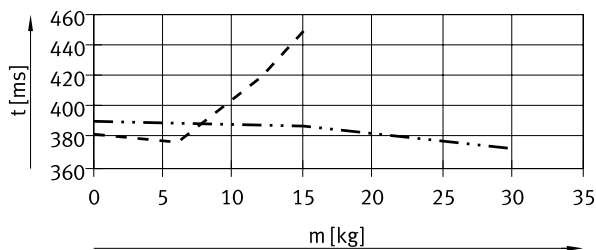
Stroke 150 mm, size 12 ... 25



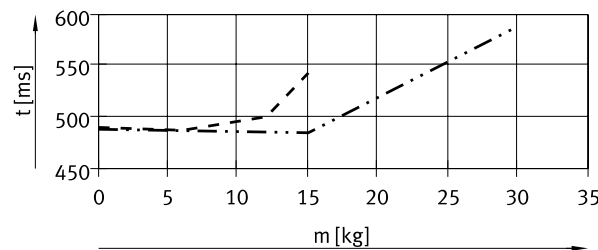
Stroke 150 mm, size 12 ... 25



Stroke 200 mm, size 20 ... 25



Stroke 200 mm, size 20 ... 25



--- DGSL-20
- - - DGSL-25

Vertical mounting position

The travel times for a vertical mounting position are calculated by multiplying the data for a horizontal mounting position by a correction factor k_a (advancing) and k_r (retracting), see adjacent table.

Assuming:
Stroke = 200 mm
Size = 20
Payload = 10 kg
Calculated travel time t_h (horizontal), see graph:
– Advancing = 405 ms
– Retracting = 490 ms
Calculated travel time t_v (vertical):
– Advancing: $t_v = t_h \times k_a$
 $t_s = 405 \text{ ms} \times 0.9 = 365 \text{ ms}$
– Retracting: $t_v = t_h \times k_r$
 $t_s = 490 \text{ ms} \times 1.5 = 735 \text{ ms}$

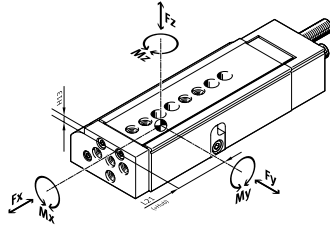
| Stroke [mm] | Size | Advancing (k_a) ¹⁾ | Retracting (k_r) |
|-------------|--------------------|-----------------------------------|----------------------|
| 30 | 8, 10, 12 | 0.95 | 1.2 |
| | 16, 20, 25 | 0.9 | 1.5 |
| 50 | 8, 10, 12 | 0.9 | 1.5 |
| | 16, 20, 25 | 0.9 | 1.5 |
| 100 | 10, 12, 16, 20, 25 | 0.8 | 1.5 |
| 150 | 12, 16, 20, 25 | 0.9 | 1.5 |
| 200 | 20, 25 | 0.9 | 1.5 |

1) Downward.

Data sheet

Dynamic characteristic load values

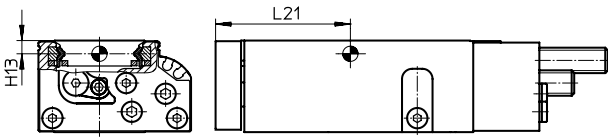
The indicated torques refer to the centre of the guide.
 These values must not be exceeded during dynamic operation. Special attention must be paid to the deceleration phase.



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:

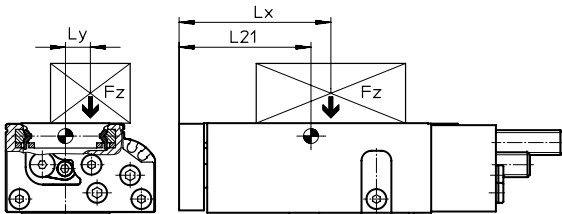
$$\frac{F_y}{F_{y_{max}}} + \frac{F_z}{F_{z_{max}}} + \frac{M_x}{M_{x_{max}}} + \frac{M_y}{M_{y_{max}}} + \frac{M_z}{M_{z_{max}}} \leq 1$$

Position of the guide centre



Calculation example

Assuming:



Mini slide = DGSL-10
 Stroke length = 80 mm
 Lever arm L_x = 50 mm
 Lever arm L_y = 30 mm
 Load F_z = 0.8 kg
 Acceleration a = 0 m/s²

Required:

F_y, F_z, M_x, M_y, M_z
 and
 Verification of operation with combined load

Solution:

$L_{21} = 83$ mm 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

$M_x = m \times g \times L_y$
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 \times 30 \text{ mm} = 0.236$ Nm

$M_y = m \times g \times [(L_{21} + \text{stroke}) - L_x]$
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 \times [(83 \text{ mm} + 80 \text{ mm}) - 50 \text{ mm}] = 0.886$ Nm

$M_z = 0$ Nm

Combined load:

$$\frac{F_y}{F_{y_{max}}} + \frac{F_z}{F_{z_{max}}} + \frac{M_x}{M_{x_{max}}} + \frac{M_y}{M_{y_{max}}} + \frac{M_z}{M_{z_{max}}} \leq 1$$

$$0 + \frac{7.848 \text{ N}}{1200 \text{ N}} + \frac{0.236 \text{ Nm}}{18 \text{ Nm}} + \frac{0.886 \text{ Nm}}{12 \text{ Nm}} + 0 \leq 1$$

| Permissible forces and torques | | | | | | Geometric characteristics | |
|--------------------------------|-------------|-------------------|-------------------|--------------------|---------------------------------|---------------------------|----------|
| Size | Stroke [mm] | $F_{y_{max}}$ [N] | $F_{z_{max}}$ [N] | $M_{x_{max}}$ [Nm] | $M_{y_{max}}, M_{z_{max}}$ [Nm] | H13 [mm] | L21 [mm] |
| 4 | 10 | 343 | 343 | 2 | 2 | 2.7 | 31 |
| | 20 | 368 | 368 | 2 | 2 | | 36 |
| | 30 | 387 | 387 | 2 | 2 | | 42 |
| 6 | 10 | 540 | 540 | 6 | 4.5 | 3.4 | 37 |
| | 20 | 590 | 590 | 7 | 5 | | 42 |
| | 30 | 631 | 631 | 8 | 5.5 | | 47 |
| | 40 | 677 | 677 | 8 | 5.5 | | 52 |
| | 50 | 719 | 719 | 8 | 5.5 | | 57 |

Data sheet

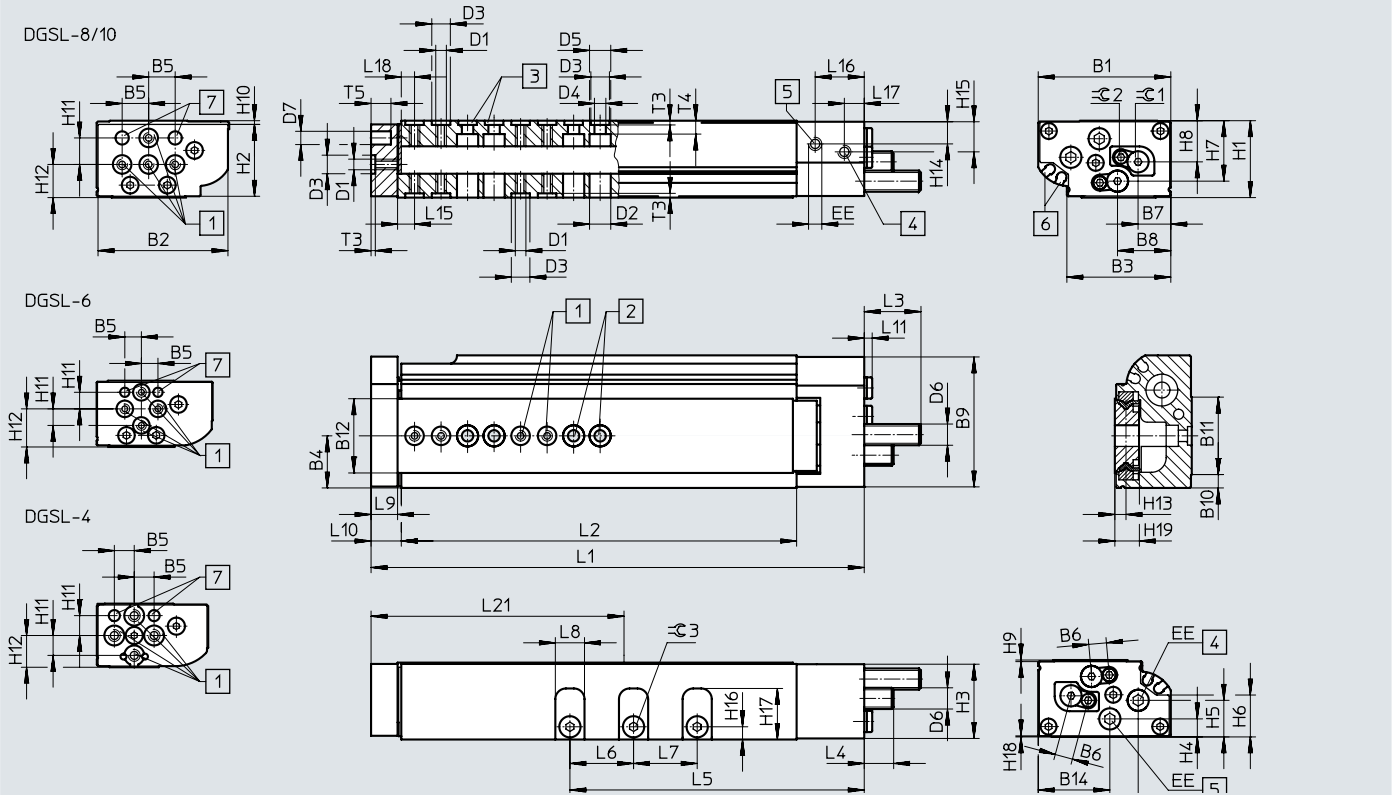
| Permissible forces and torques | | | | | | Geometric characteristics | |
|--------------------------------|----------------|--------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------|-------------|
| Size | Stroke [mm] | F _y _{max} [N] | F _z _{max} [N] | M _x _{max} [Nm] | M _y _{max} , M _z _{max} [Nm] | H13 [mm] | L21 [mm] |
| 8 | | | | | | | |
| | 10 | 657 | 657 | 7 | 5.5 | 3.25 | 41 |
| | 20 | 745 | 745 | 8 | 5.5 | | 46 |
| | 30 | 850 | 850 | 9 | 5.5 | | 51 |
| | 40 | 934 | 934 | 10 | 5.5 | | 56 |
| | 50 | 962 | 962 | 10 | 8 | | 67 |
| | 80 | 971 | 971 | 10 | 8 | | 82 |
| 10 | | | | | | | |
| | 10 | 927 | 927 | 15 | 6 | 4.2 | 43 |
| | 20 | 1003 | 1003 | 15 | 7 | | 46 |
| | 30 | 1078 | 1078 | 15 | 8 | | 51 |
| | 40 | 1152 | 1152 | 15 | 9 | | 56 |
| | 50 | 1175 | 1175 | 18 | 9 | | 61 |
| | 80 | 1200 | 1200 | 18 | 12 | | 83 |
| | 100 | 1250 | 1250 | 18 | 12 | | 96 |
| 12 | | | | | | | |
| | 10 | 942 | 942 | 15 | 8 | 5.2 | 44 |
| | 20 | 1006 | 1006 | 15 | 9 | | 49 |
| | 30 | 1075 | 1075 | 15 | 10 | | 54 |
| | 40 | 1142 | 1142 | 18 | 11 | | 59 |
| | 50 | 1200 | 1200 | 18 | 12 | | 64 |
| | 80 | 1280 | 1280 | 20 | 15 | | 88 |
| | 100 | 1340 | 1340 | 20 | 15 | | 98 |
| | 150 | 1400 | 1400 | 20 | 15 | | 124 |
| 16 | | | | | | | |
| | 10 | 1769 | 1769 | 35 | 20 | 6.4 | 54 |
| | 20 | 2021 | 2021 | 35 | 22 | | 59 |
| | 30 | 2274 | 2274 | 35 | 22 | | 64 |
| | 40 | 2527 | 2527 | 40 | 25 | | 69 |
| | 50 | 2780 | 2780 | 40 | 25 | | 74 |
| | 80 | 2800 | 2800 | 50 | 27 | | 89 |
| | 100 | 2850 | 2850 | 50 | 43 | | 113 |
| | 150 | 2900 | 2900 | 50 | 43 | | 138 |
| 20 | | | | | | | |
| | 10 | 2911 | 2911 | 60 | 30 | 7.55 | 56 |
| | 20 | 3143 | 3143 | 60 | 30 | | 61 |
| | 30 | 3354 | 3354 | 60 | 30 | | 66 |
| | 40 | 3612 | 3612 | 60 | 40 | | 71 |
| | 50 | 3816 | 3816 | 70 | 50 | | 76 |
| | 80 | 4032 | 4032 | 80 | 50 | | 91 |
| | 100 | 4200 | 4200 | 85 | 80 | | 121 |
| | 150 | 4400 | 4400 | 90 | 80 | | 152 |
| | 200 | 4600 | 4600 | 90 | 80 | | 177 |
| 25 | | | | | | | |
| | 10 | 3270 | 3270 | 100 | 60 | 8.55 | 64 |
| | 20 | 3744 | 3744 | 100 | 60 | | 69 |
| | 30 | 4205 | 4205 | 100 | 60 | | 74 |
| | 40 | 4643 | 4643 | 110 | 60 | | 79 |
| | 50 | 4650 | 4650 | 120 | 60 | | 84 |
| | 80 | 4700 | 4700 | 130 | 80 | | 112 |
| | 100 | 4750 | 4750 | 130 | 80 | | 129 |
| | 150 | 4800 | 4800 | 130 | 80 | | 154 |
| | 200 | 4800 | 4800 | 130 | 80 | | 179 |

Data sheet

Dimensions

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Size 4 ... 10



- [1] Mounting thread (centring sleeves included in the scope of delivery)
- [2] Through-holes for mounting the drive
- [3] Centring holes (centring sleeves included in the scope of delivery)
- [4] Supply port, advancing
- [5] Supply port, retracting
- [6] Sensor slots for proximity switch SME/SMT-10
- [7] Centring hole
- L10 Distance between outer edge of yoke plate and housing
- L15 Distance between centre of centring hole and outer edge of slide
- L18 Distance between centre of centring hole and outer edge of housing

General dimensions

| Size | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | D1 |
|------|----|------|-------|-------|----|------|-------|-------|------|------|------|------|-------|-------|----|
| 4 | 28 | 27.4 | 18.35 | 9.4 | 5 | 3.55 | 6.3 | 11.95 | 27.5 | 2 | 17.2 | 12.4 | 23.15 | 16.15 | M3 |
| 6 | 35 | 34.5 | 26.3 | 13.5 | 5 | 5 | 8.2 | 13.55 | 34.5 | 3.5 | 19.9 | 20 | 28.1 | 18.9 | M3 |
| 8 | 42 | 41.3 | 31.45 | 16.6 | 10 | 6 | 10.3 | 16.25 | 41.5 | 4.57 | 24 | 24.1 | 33 | 24.4 | M4 |
| 10 | 50 | 49 | 39.2 | 19.65 | 10 | 6.8 | 12.35 | 20.1 | 49 | 5 | 29.2 | 28 | 37.7 | 27 | M4 |

| Size | D2 ∅ | D3 ∅ | D4 ∅ | D5 ∅ | D6 | D7 ∅ | EE | H1 ±0.08 | H2 | H3 | H4 | H5 | H6 | H7 | H8 |
|------|---------|-----------------|---------|---------|--------|-----------------|----|-------------|------|-------|------|-------|-------|-------|-------|
| 4 | 6.3 | 5 ^{H7} | 3.3 | 6.2 | M4x0.5 | 3 ^{H7} | M3 | 16 | 15.4 | 15.1 | 3.85 | 6.25 | 8.55 | 8.1 | 8.4 |
| 6 | 6.3 | 5 ^{H7} | 3.3 | 6.2 | M5x0.5 | 3 ^{H7} | M3 | 20 | 19 | 19.25 | 4.7 | 7.8 | 10.2 | 16.05 | 10.55 |
| 8 | 8.2 | 7 ^{H7} | 4.3 | 8 | M6x0.5 | 5 ^{H7} | M3 | 24 | 22.7 | 23 | 6.46 | 10.63 | 14.06 | 18.9 | 13.3 |
| 10 | 8.2 | 7 ^{H7} | 4.3 | 8 | M8x1 | 5 ^{H7} | M5 | 29 | 27.1 | 28 | 6.8 | 13.8 | 15.8 | 22.8 | 15.5 |

| Size | H9 | H10 | H11 | H12 | H13 | H14 | H15 | H16 | H17 | H18 | H19 | T3 +0.1 | T4 | T5 | ≡ 2 ¹⁾ | ≡ 3 |
|------|------|-----|-----|------|------|------|-------|-----|-------|------|------|------------|------|-----|-------------------|-----|
| 4 | 0.65 | 0.3 | 5 | 8 | 2.7 | 5.35 | 5.85 | 3.1 | 10.6 | 0.25 | 5.28 | 1.3 | 2.25 | 4 | 1.5 | 2 |
| 6 | 0.45 | 0.5 | 5 | 11.5 | 3.38 | 6.5 | 7.2 | 3.7 | 13.1 | 0.3 | 6.68 | 1.3 | 3.7 | 6 | 1.5 | 2.5 |
| 8 | 0.64 | 0.9 | 10 | 8.7 | 3.28 | 7.8 | 10.5 | 4.1 | 16.8 | 0.36 | 6.7 | 1.6 | 3.8 | 7.5 | 2 | 2.5 |
| 10 | 0.6 | 1.4 | 10 | 12.5 | 4.2 | 8.76 | 11.76 | 4.8 | 19.25 | 0.41 | 9 | 1.6 | 5.35 | 7.5 | 2.5 | 3 |

1) With size 4, the scope of delivery of the drive includes an Allen key

Data sheet

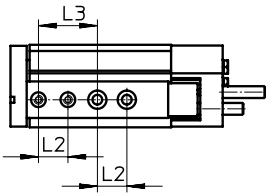
| Stroke-dependent dimensions | | | | | | | | | | | | | | | |
|-----------------------------|--------|-------|-------|-------|----|----|-----|-----|------|-----|--------------|-------|------|--------------|-----|
| Size | Stroke | L1 | L2 | L5 | L6 | L7 | L8 | L9 | L10 | L11 | L15 ±0.05 | L16 | L17 | L18 ±0.05 | L21 |
| 4 | 10 | 72.1 | 48 | 28.85 | – | – | 6.5 | 5.5 | 6.6 | 2.5 | 4 | 13.25 | 4.95 | 3 | 31 |
| | 20 | 81.2 | 57.1 | 37.95 | 10 | | | | | | | | | | 36 |
| | 30 | 91.2 | 67.1 | 47.95 | 11 | | | | | | | | | | 42 |
| 6 | 10 | 81.1 | 54 | 33.1 | – | – | 8 | 8 | 9.6 | 2.5 | 5.1 | 13.25 | 4.95 | 3.5 | 37 |
| | 20 | 91.1 | 64 | 43.1 | 14 | | | | | | | | | | 42 |
| | 30 | 101.1 | 74 | 53.1 | – | | | | | | | | | | 47 |
| | 40 | 111.1 | 84 | 63.1 | – | | | | | | | | | | 52 |
| | 50 | 121.1 | 94 | 73.1 | – | | | | | | | | | | 57 |
| 8 | 10 | 90.2 | 59.6 | 34.6 | – | – | 8 | 10 | 11.6 | 2.5 | 7 | 14.65 | 6.1 | 5.5 | 41 |
| | 20 | 100.2 | 69.6 | 44.6 | 10 | | | | | | | | | | 46 |
| | 30 | 110.2 | 79.6 | 54.6 | 16 | | | | | | | | | | 51 |
| | 40 | 120.2 | 89.6 | 64.6 | – | | | | | | | | | | 56 |
| | 50 | 142.2 | 111.6 | 74.6 | – | | | | | | | | | | 67 |
| | 80 | 172.2 | 141.6 | 104.6 | 16 | | | | | | | | | | 82 |
| 10 | 10 | 103.1 | 66 | 41.3 | – | – | 11 | 10 | 11.6 | 2.5 | 6.4 | 18.5 | 7.5 | 5 | 43 |
| | 20 | 112.8 | 75.7 | 51 | – | | | | | | | | | | 46 |
| | 30 | 122.8 | 85.7 | 61 | – | | | | | | | | | | 51 |
| | 40 | 132.8 | 95.7 | 71 | – | | | | | | | | | | 56 |
| | 50 | 142.8 | 105.7 | 81 | – | | | | | | | | | | 61 |
| | 80 | 186.2 | 149.1 | 111 | 24 | | | | | | | | | | 83 |
| | 100 | 206.2 | 169.1 | 131 | 24 | | | | | | | | | | 24 |

| Cushioning-dependent dimensions | | | | | |
|---------------------------------|------------|------------|------------|--|--------------------------------|
| Size | Cushioning | L3 max. | L4 max. | ≈ 1 | |
| | | | | For adjusting the cushioning stroke | For adjusting the end position |
| 4 | P | 15.2 | 7.8 | – | 1.5 |
| | E | 5.7 | 0 | – | 1.5 |
| | P1 | 14 | 6 | 1.3 | 2.5 |
| 6 | P | 17.6 | 8.1 | – | 1.5 |
| | E | 6.6 | 0 | – | 1.5 |
| | P1 | 15.5 | 5.8 | 1.5 | 3 |
| 8 | P | 21.1 | 10.7 | – | 2 |
| | E | 6.6 | 0 | – | 2 |
| | P1 | 19 | 9.1 | 2 | 4 |
| | Y3 | 24.3 | 23.9 | – | 2 |
| 10 | P | 22.8 | 12.5 | – | 2.5 |
| | E | 8.8 | 0 | – | 2.5 |
| | P1 | 20.5 | 10.2 | 2.5 | 5 |
| | Y3 | 25.5 | 14.9 | – | 2.5 |
| | Y11 | 30.4 | 19.9 | – | 2 |

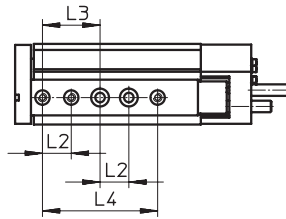
Data sheet

Hole pattern for mounting threads and centring holes

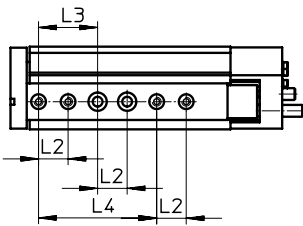
DGSL-4-10



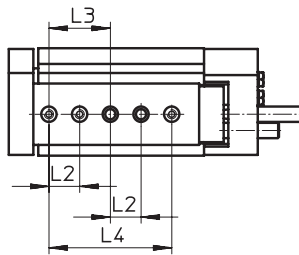
DGSL-4-20



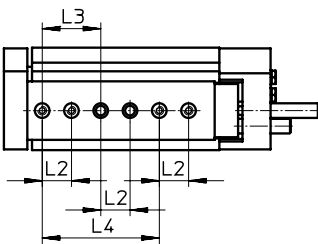
DGSL-4-30



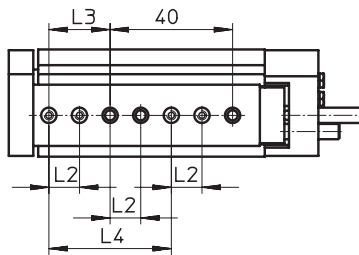
DGSL-6-10



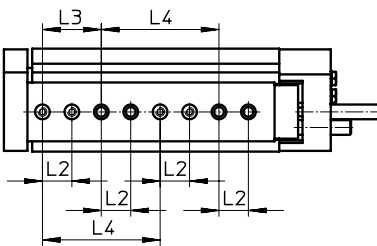
DGSL-6-20



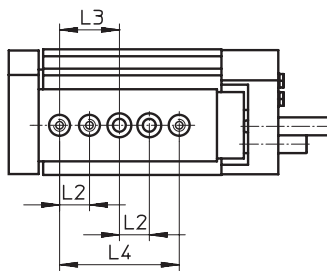
DGSL-6-30



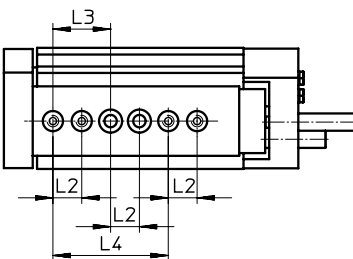
DGSL-6-40/50



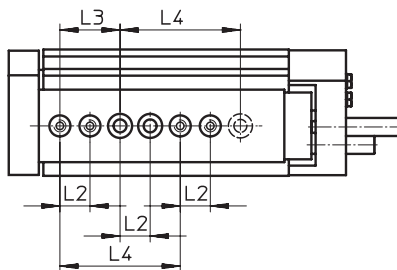
DGSL-8-10



DGSL-8-20



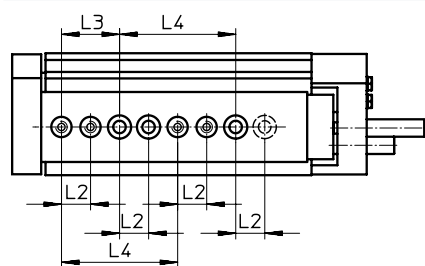
DGSL-8-30



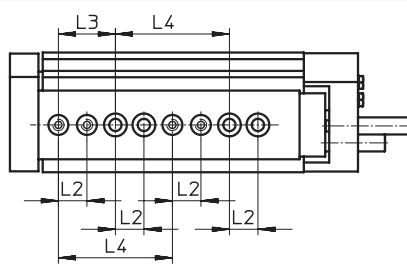
Data sheet

Hole pattern for mounting threads and centring holes

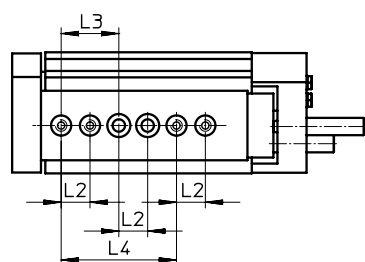
DGSL-8-40



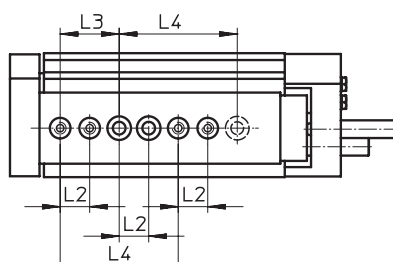
DGSL-8-50/80



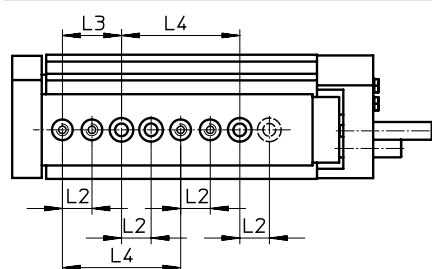
DGSL-10-10



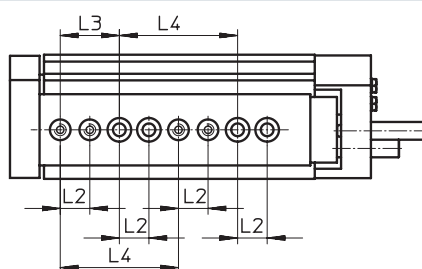
DGSL-10-20



DGSL-10-30

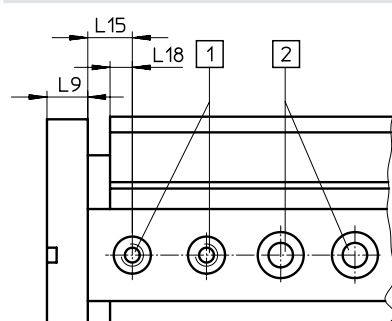


DGSL-10-40 ... 100



Distances from the yoke plate to the mounting threads and centring holes

DGSL-4 ... 10



- [1] Centring holes with thread
 [2] Through-holes for mounting the drive

| Size | L2 ¹⁾ | L3 ¹⁾ | L4 ¹⁾ | L9 | L15 ±0.05 | L18 |
|------|------------------|------------------|------------------|-----|--------------|-----|
| 4 | 10 | 20 | 40 | 5.5 | 4 | 3 |
| 6 | 10 | 20 | 40 | 8 | 5.1 | 3.5 |
| 8 | 10 | 20 | 40 | 10 | 7 | 5.5 |
| 10 | 10 | 20 | 40 | 10 | 6.4 | 5 |

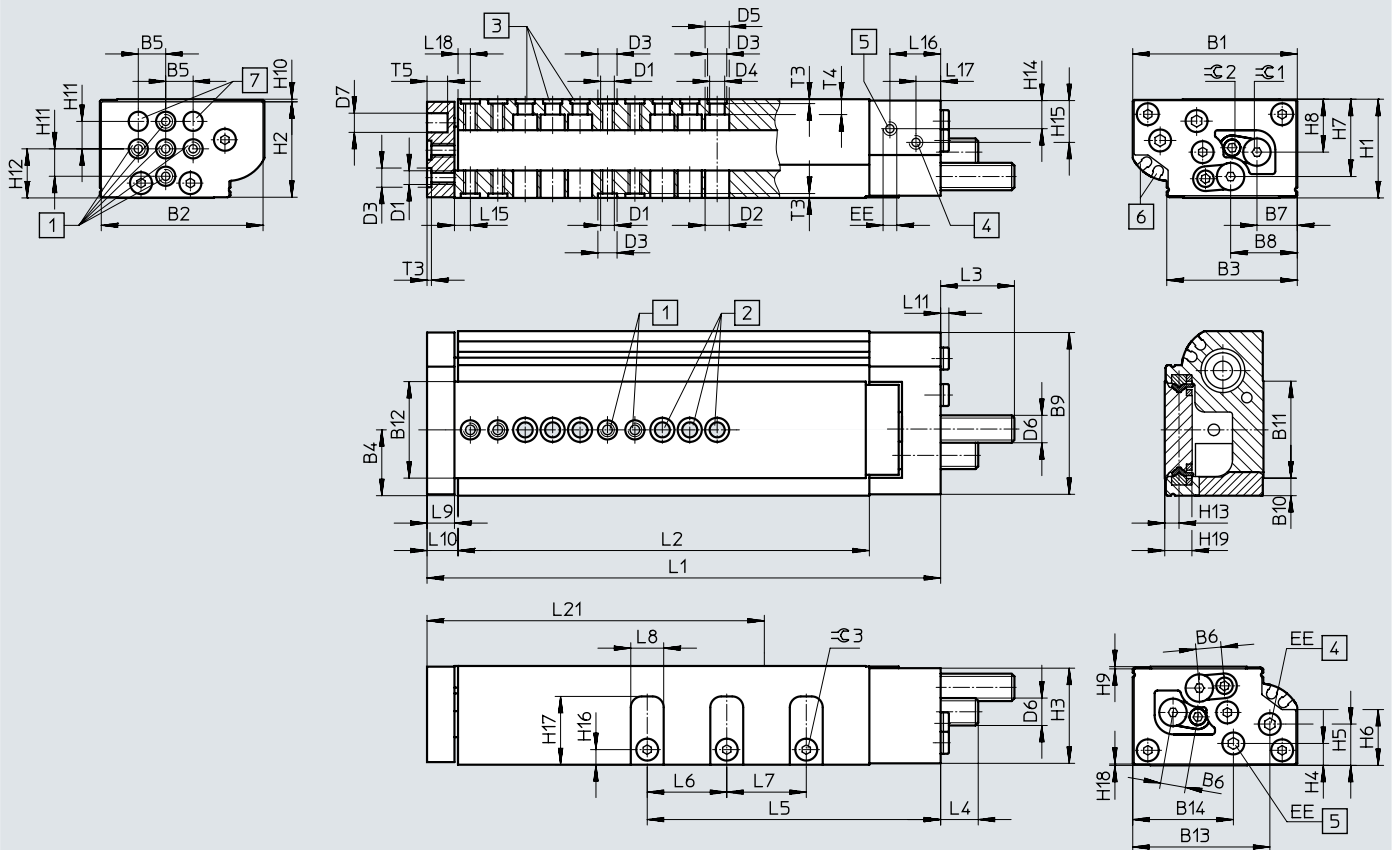
1) Tolerance for centring hole ±0.02
 Tolerance for through-hole ±0.1

Data sheet

Dimensions

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Size 12/16



- [1] Mounting thread (centring sleeves included in the scope of delivery)
- [2] Through-holes for mounting the drive
- [3] Centring holes (centring sleeves included in the scope of delivery)
- [4] Supply port, advancing
- [5] Supply port, retracting
- [6] Sensor slots for proximity switch SME/SMT-10
- [7] Centring hole
- L10 Distance between outer edge of yoke plate and housing
- L15 Distance between centre of centring hole and outer edge of slide
- L18 Distance between centre of centring hole and outer edge of housing

General dimensions

| Size | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | D1 |
|------|----|----|------|------|----|------|------|------|----|------|-------|------|------|------|----|
| 12 | 60 | 59 | 47.6 | 24 | 10 | 9.2 | 14.7 | 24.3 | 59 | 6.45 | 35.25 | 35.2 | 50 | 36.7 | M5 |
| 16 | 66 | 65 | 53.5 | 26.7 | 10 | 11.1 | 16.7 | 27.5 | 65 | 7.75 | 37.9 | 38 | 50.4 | 36.7 | M5 |

| Size | D2 ∅ | D3 ∅ | D4 ∅ | D5 ∅ | D6 | D7 ∅ | EE | H1 ±0.08 | H2 | H3 | H4 | H5 | H6 | H7 | H8 |
|------|---------|-----------------|---------|---------|-------|-----------------|----|-------------|------|------|-----|------|-------|------|------|
| 12 | 9 | 7 ^{H7} | 5.5 | 9 | M10x1 | 8 ^{H7} | M5 | 36 | 34.8 | 34.7 | 8 | 15.1 | 20.35 | 28.2 | 19.3 |
| 16 | 9 | 7 ^{H7} | 5.5 | 9 | M12x1 | 8 ^{H7} | M5 | 40 | 38 | 39 | 8.5 | 16.7 | 20.6 | 31.7 | 20.8 |

| Size | H9 | H10 | H11 | H12 | H13 | H14 | H15 | H16 | H17 | H18 | H19 | T3 +0.1 | T4 | T5 | ∅ 2 | ∅ 3 |
|------|-----|------|-----|------|-----|-------|-------|-----|------|-----|------|------------|-----|-----|-----|-----|
| 12 | 0.8 | 0.95 | 10 | 17.9 | 5.2 | 10.75 | 15.75 | 5.5 | 24.9 | 0.5 | 10.1 | 1.6 | 5.6 | 7.5 | 3 | 3 |
| 16 | 0.5 | 1.5 | 10 | 20 | 6.4 | 10.5 | 16.7 | 7 | 26.6 | 0.5 | 12.5 | 1.6 | 6.1 | 9 | 4 | 4 |

Data sheet

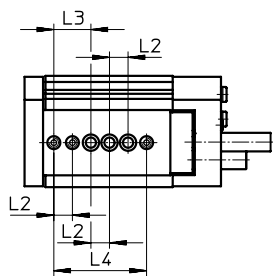
| Stroke-dependent dimensions | | | | | | | | | | | | | | | | |
|-----------------------------|--------|-------|-------|-------|----|-----|----|----|------|-----|--------------|------|-----|--------------|-----|-----|
| Size | Stroke | L1 | L2 | L5 | L6 | L7 | L8 | L9 | L10 | L11 | L15 ±0.05 | L16 | L17 | L18 ±0.05 | L21 | |
| 12 | 10 | 106.2 | 68.6 | 42.4 | - | - | 12 | 10 | 11.6 | 2.5 | 5.8 | 18.5 | 9 | 4.5 | 44 | |
| | 20 | 116.2 | 78.6 | 52.4 | | | | | | | | | | | 49 | |
| | 30 | 126.2 | 88.6 | 62.4 | | | | | | | | | | | 54 | |
| | 40 | 136.2 | 98.6 | 72.4 | | | | | | | | | | | 59 | |
| | 50 | 146.2 | 108.6 | 82.4 | | | | | | | | | | | 64 | |
| | 80 | 197.6 | 160 | 112.4 | | | | | | | | | | | 29 | 88 |
| | 100 | 217.6 | 180 | 132.4 | | | | | | | | | | | 29 | 98 |
| | 150 | 267.6 | 230 | 182.4 | 29 | 124 | | | | | | | | | | |
| 16 | 10 | 124.1 | 82.5 | 45 | - | - | 14 | 12 | 13.6 | 2.5 | 6.8 | 21 | 10 | 5.5 | 54 | |
| | 20 | 134.6 | 93 | 54.6 | | | | | | | | | | | 59 | |
| | 30 | 144.6 | 103 | 64.6 | | | | | | | | | | | 64 | |
| | 40 | 154.6 | 113 | 74.6 | | | | | | | | | | | 69 | |
| | 50 | 164.6 | 123 | 84.6 | | | | | | | | | | | 74 | |
| | 80 | 194.6 | 153 | 114.6 | | | | | | | | | | | 35 | 89 |
| | 100 | 243.6 | 202 | 134.6 | | | | | | | | | | | 35 | 113 |
| | 150 | 293.6 | 252 | 184.6 | 35 | 138 | | | | | | | | | | |

| Cushioning-dependent dimensions | | | | | |
|---------------------------------|------------|------------|------------|--|--------------------------------|
| Size | Cushioning | L3 max. | L4 max. | ≈ 1 | |
| | | | | For adjusting the cushioning stroke | For adjusting the end position |
| 12 | P | 28.1 | 14.9 | - | 3 |
| | E | 8.8 | 0 | - | 3 |
| | P1 | 26 | 12.8 | 3 | 6 |
| | Y3 | 36.9 | 23.7 | - | 3 |
| | Y11 | 42.2 | 18.7 | - | 2.5 |
| 16 | P | 42.3 | 26.1 | - | 4 |
| | E | 8.8 | 0 | - | 4 |
| | P1 | 40 | 23.8 | 4 | 8 |
| | Y3 | 51.9 | 35.7 | - | 4 |
| | Y11 | 55.4 | 38.9 | - | 3 |

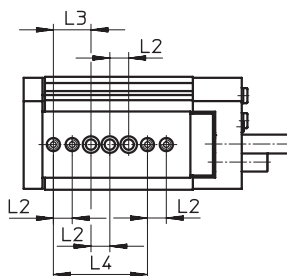
Data sheet

Hole pattern for mounting threads and centring holes

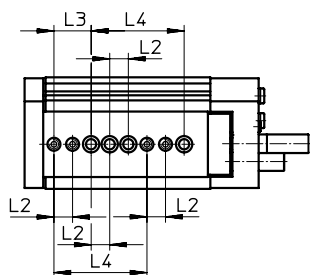
DGSL-12-10



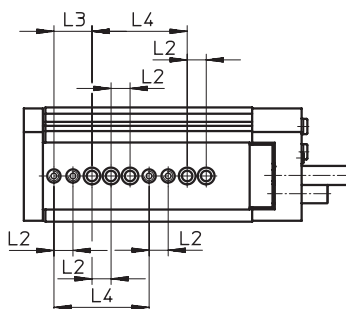
DGSL-12-20



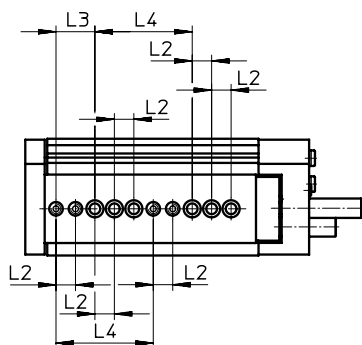
DGSL-12-30



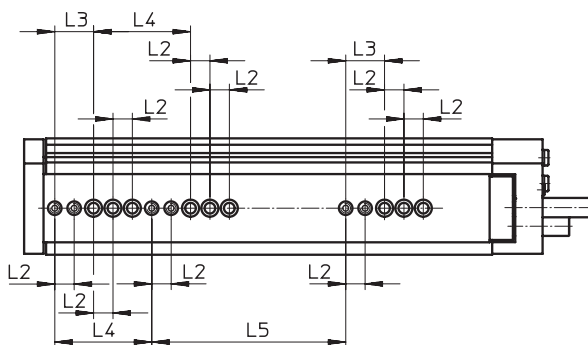
DGSL-12-40



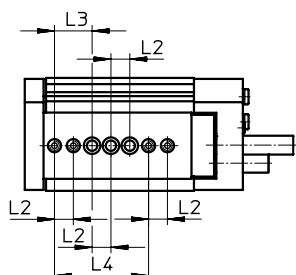
DGSL-12-50 ... 100



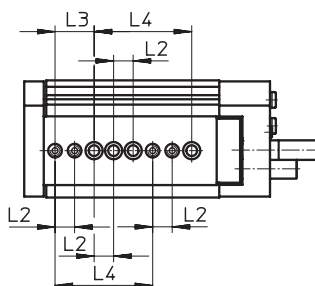
DGSL-12-150



DGSL-16-10



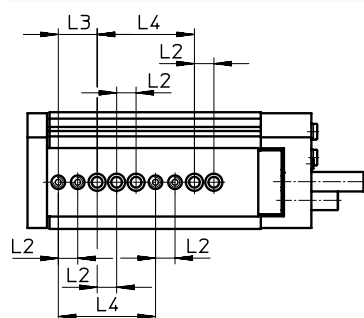
DGSL-16-20



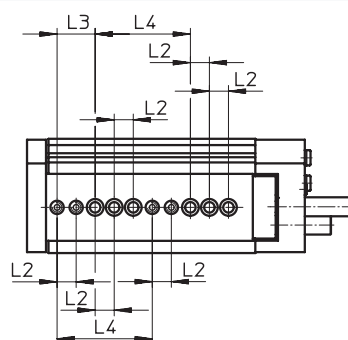
Data sheet

Hole pattern for mounting threads and centring holes

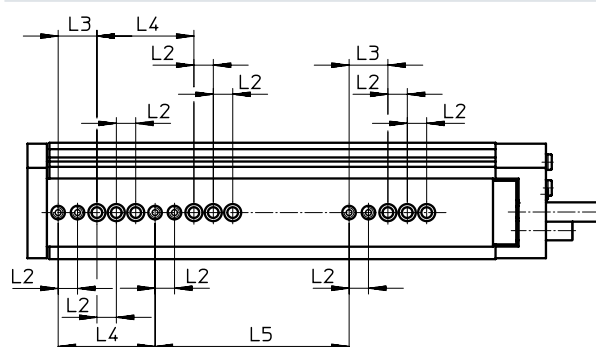
DGSL-16-30



DGSL-16-40 ... 100

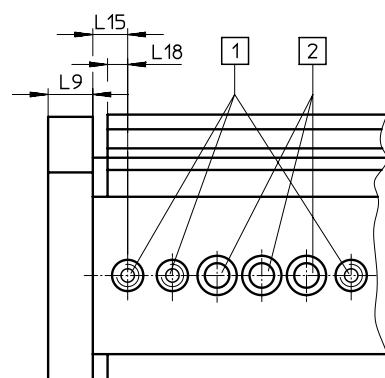


DGSL-16-150



Distances from the yoke plate to the mounting threads and centring holes

DGSL-12/16



- [1] Centring holes with thread
 [2] Through-holes for mounting the drive

| Size | L2 ¹⁾ | L3 ¹⁾ | L4 ¹⁾ | L5 ±0.03 | L9 | L15 ±0.05 | L18 ±0.05 |
|------|------------------|------------------|------------------|-------------|----|--------------|--------------|
| 12 | 10 | 20 | 50 | 100 | 10 | 5.8 | 4.5 |
| 16 | 10 | 20 | 50 | 100 | 12 | 6.8 | 5.5 |

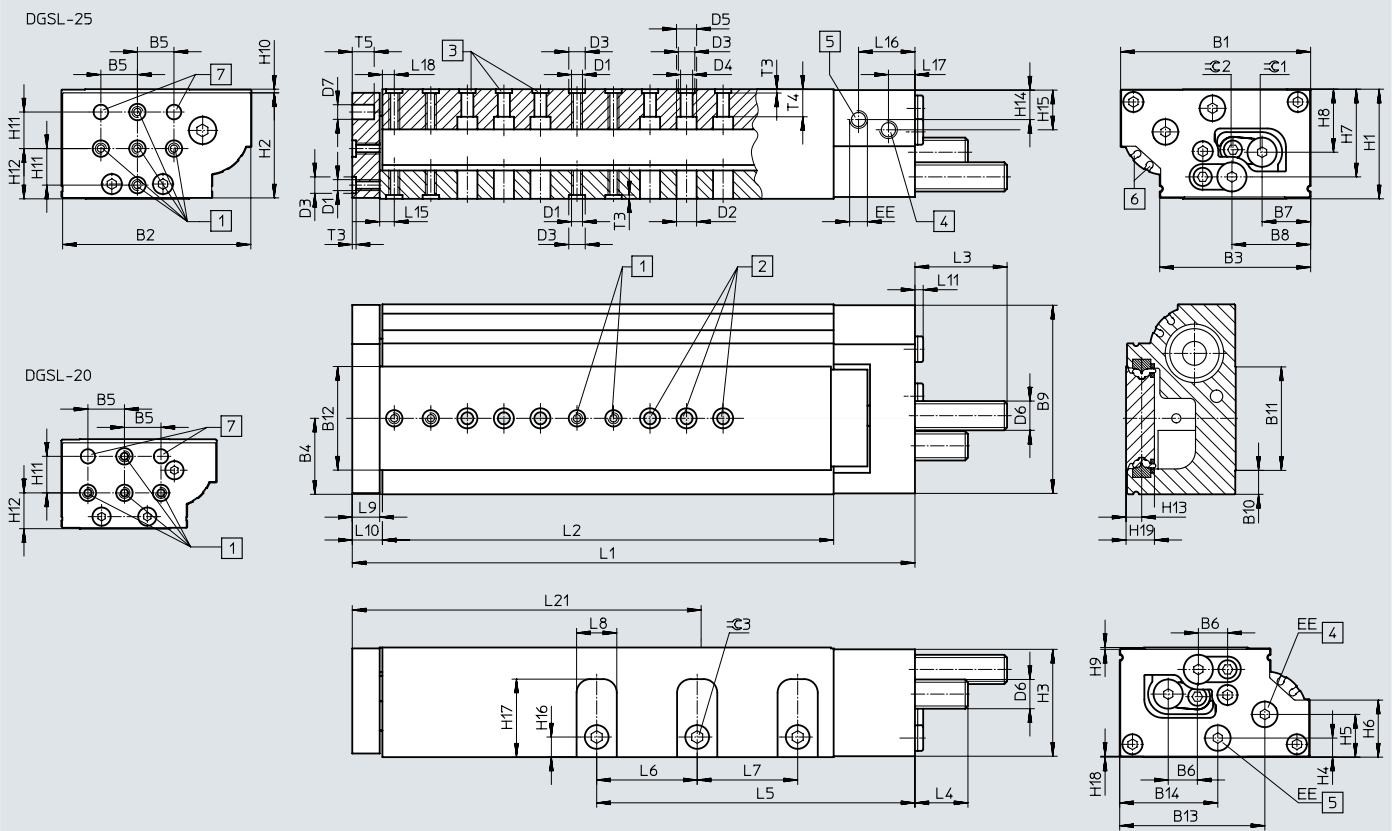
- 1) Tolerance for centring hole ±0.02
 Tolerance for through-hole ±0.1

Data sheet

Dimensions

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Size 20/25



- [1] Mounting thread (centring sleeves included in the scope of delivery)
- [2] Through-holes for mounting the drive
- [3] Centring holes (centring sleeves included in the scope of delivery)
- [4] Supply port, advancing
- [5] Supply port, retracting
- [6] Sensor slots for proximity switch
- [7] Centring hole
- L10 Distance between outer edge of yoke plate and housing
- L15 Distance between centre of centring hole and outer edge of slide
- L18 Distance between centre of centring hole and outer edge of housing

General dimensions

| Size | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | D1 |
|------|-----|-----|-------|------|----|-------|------|-------|------|-------|------|------|------|-------|----|
| 20 | 85 | 84 | 68.85 | 34.5 | 20 | 14.15 | 21.4 | 36.35 | 83.4 | 10 | 48.9 | 49.2 | 64.1 | 48.6 | M6 |
| 25 | 104 | 103 | 82.6 | 41.6 | 20 | 16.2 | 26.4 | 43.05 | 103 | 13.25 | 56.5 | 56.7 | 79.3 | 53.65 | M6 |

| Size | D2 ∅ | D3 ∅ | D4 ∅ | D5 ∅ | D6 | D7 ∅ | EE | H1 ±0.08 | H2 | H3 | H4 | H5 | H6 | H7 | H8 |
|------|---------|-----------------|---------|---------|-------|-----------------|------|-------------|------|------|-------|-------|-------|-------|------|
| 20 | 11.2 | 9 ^{H7} | 6.6 | 11 | M14x1 | 8 ^{H7} | G1/8 | 49 | 46.5 | 47.7 | 10.3 | 20.6 | 23.2 | 38.2 | 26.1 |
| 25 | 11.2 | 9 ^{H7} | 6.6 | 11 | M16x1 | 8 ^{H7} | G1/8 | 60 | 57.5 | 58.5 | 10.45 | 23.35 | 31.15 | 47.95 | 34.5 |

| Size | H9 | H10 | H11 | H12 | H13 | H14 | H15 | H16 | H17 | H18 | H19 | T3 +0.1 | T4 | T5 | ∅ 2 | ∅ 3 |
|------|-----|-----|-----|------|------|-------|-------|-----|------|------|------|------------|-----|----|-----|-----|
| 20 | 0.5 | 2 | 20 | 19.6 | 7.55 | 14.7 | 14.7 | 10 | 33.3 | 0.8 | 14.6 | 2.1 | 8.6 | 10 | 4 | 5 |
| 25 | 1 | 2 | 20 | 27.5 | 8.55 | 16.55 | 21.15 | 11 | 42.7 | 0.45 | 15.6 | 2.1 | 15 | 12 | 5 | 6 |

Data sheet

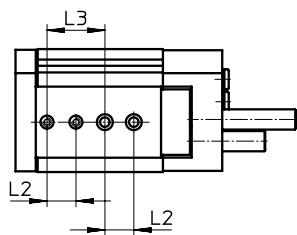
| Stroke-dependent dimensions | | | | | | | | | | | | | | | |
|-----------------------------|--------|-------|-------|-------|----|----|-----|----|------|-----|--------------|------|------|--------------|-----|
| Size | Stroke | L1 | L2 | L5 | L6 | L7 | L8 | L9 | L10 | L11 | L15 ±0.05 | L16 | L17 | L18 ±0.05 | L21 |
| 20 | 10 | 141.2 | 84.6 | 59.1 | – | – | 17 | 14 | 15.6 | 4.6 | 7.8 | 30.5 | 12 | 6.5 | 56 |
| | 20 | 151.2 | 94.6 | 69.1 | | | | | | | | | | | 61 |
| | 30 | 161.2 | 104.6 | 79.1 | | | | | | | | | | | 66 |
| | 40 | 171.2 | 114.6 | 89.1 | | | | | | | | | | | 71 |
| | 50 | 183.2 | 126.6 | 99.1 | | | | | | | | | | | 76 |
| | 80 | 211.2 | 154.6 | 129.1 | 44 | 44 | 91 | | | | | | | | |
| | 100 | 270.2 | 213.6 | 149.1 | | | 121 | | | | | | | | |
| | 150 | 333.2 | 276.6 | 199.1 | | | 152 | | | | | | | | |
| | 200 | 383.2 | 326.6 | 252.1 | | | 177 | | | | | | | | |
| 25 | 10 | 157.1 | 96 | 63.7 | – | – | 22 | 15 | 16.6 | 4.6 | 8 | 32.3 | 14.5 | 6.5 | 64 |
| | 20 | 167.1 | 106 | 72.2 | | | | | | | | | | | 69 |
| | 30 | 177.1 | 116 | 82.2 | | | | | | | | | | | 74 |
| | 40 | 187.1 | 126 | 92.2 | | | | | | | | | | | 79 |
| | 50 | 197.1 | 136 | 102.2 | | | | | | | | | | | 84 |
| | 80 | 253.1 | 192 | 132.2 | 55 | 55 | 112 | | | | | | | | |
| | 100 | 286.1 | 225 | 152.2 | | | 129 | | | | | | | | |
| | 150 | 338.1 | 277 | 202.2 | | | 154 | | | | | | | | |
| | 200 | 388.1 | 327 | 254.2 | | | 179 | | | | | | | | |

| Cushioning-dependent dimensions | | | | | |
|---------------------------------|------------|------------|------------|--|--------------------------------|
| Size | Cushioning | L3 max. | L4 max. | = 1 | |
| | | | | For adjusting the cushioning stroke | For adjusting the end position |
| 20 | P | 52.4 | 31.2 | – | 4 |
| | E | 8.8 | 0 | – | 4 |
| | P1 | 50.1 | 28.9 | 4 | 8 |
| | Y3 | 55.5 | 34.3 | – | 4 |
| | Y11 | 67.4 | 45.9 | – | 4 |
| 25 | P | 51.9 | 30.5 | – | 5 |
| | E | 8.8 | 0 | – | 5 |
| | P1 | 49.6 | 28.2 | 5 | 10 |
| | Y3 | 65.2 | 43.8 | – | 5 |
| | Y11 | 78.4 | 56.9 | – | 4 |

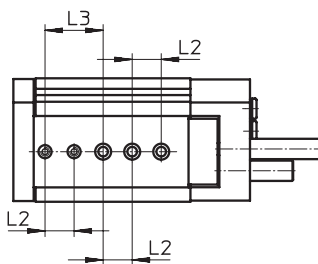
Data sheet

Hole pattern for mounting threads and centring holes

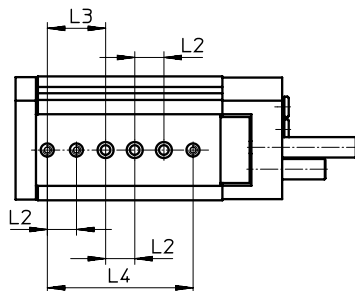
DGSL-20-10/20



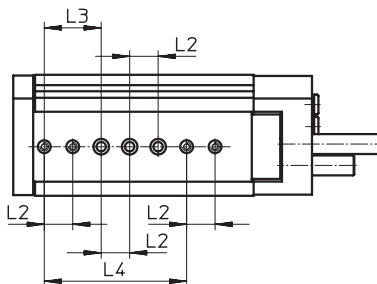
DGSL-20-30/40



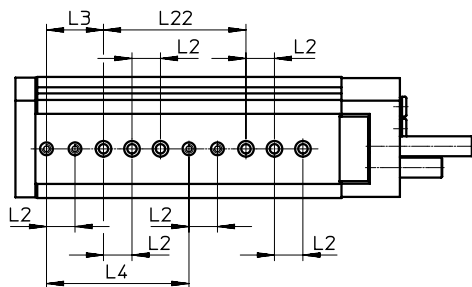
DGSL-20-50



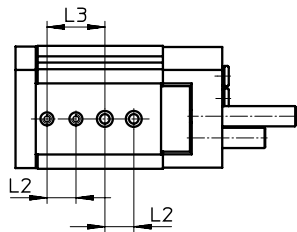
DGSL-20-80



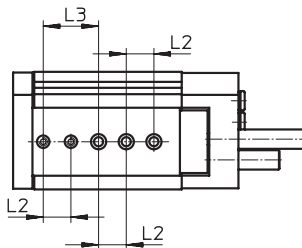
DGSL-20-100 ... 200



DGSL-25-10



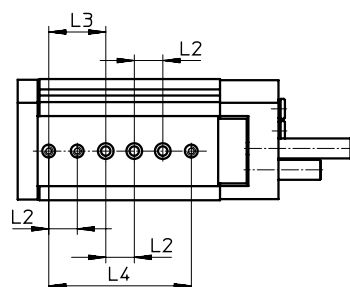
DGSL-25-20



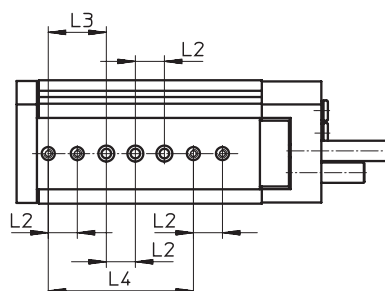
Data sheet

Hole pattern for mounting threads and centring holes

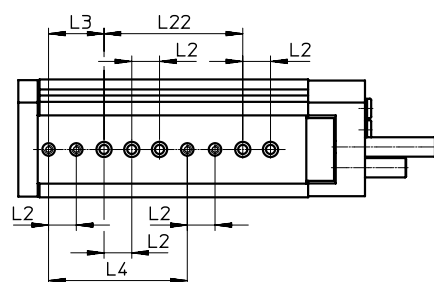
DGSL-25-30/40



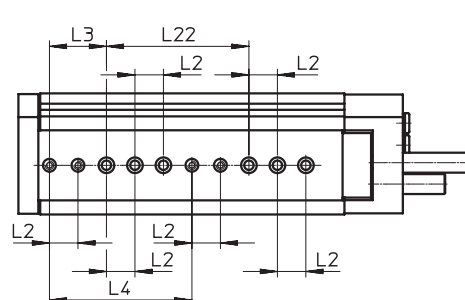
DGSL-25-50



DGSL-25-80

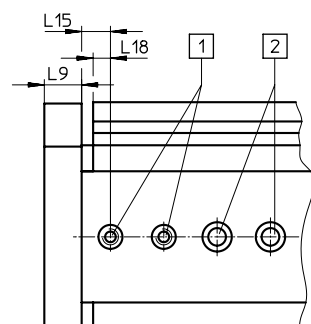


DGSL-25-100 ... 200



Distances from the yoke plate to the mounting threads and centring holes

DGSL-20/25



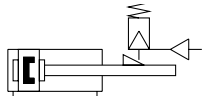
- [1] Centring holes with thread
 [2] Through-holes for mounting the drive

| Size | L2 ¹⁾ | L3 ¹⁾ | L4 | L9 | L15 ±0.05 | L18 +0.05 | L22 |
|------|------------------|------------------|-------------------|----|--------------|--------------|-------------------|
| 20 | 20 | 40 | 100 ¹⁾ | 14 | 7.8 | 6.5 | 100±0.03 |
| 25 | 20 | 40 | 100±0.03 | 15 | 8 | 6.5 | 100 ¹⁾ |

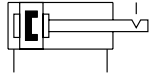
- 1) Tolerance for centring hole ±0.02
 Tolerance for through-hole ±0.1

Data sheet

Function
C – Clamping unit

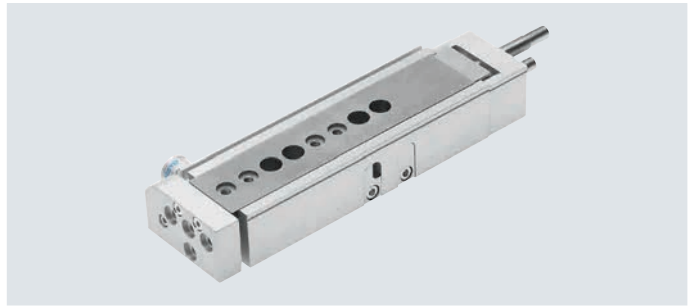


E3 – End-position locking



Size
6 ... 25

Sets of wearing parts
→ Page 45



Note

If used in safety-relevant applications, additional measures are necessary, e.g. in Europe the standards listed in the EC Machinery Directive must be observed. Without additional measures in accordance with legally specified minimum requirements, the product is not suitable as a safety-related component in control systems.

General technical data – Clamping unit

| Size | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|---|---|----|-----|-----|-----|-----|-----|
| Function | <ul style="list-style-type: none"> Mechanical clamping For fixing the slide in any position Frictional locking | | | | | | |
| Type of clamping with effective direction | At both ends Clamping via spring force, compressed air to release | | | | | | |
| Pneumatic connection | M5 | | | | | | |
| Mounting position | Any | | | | | | |
| Static holding force [N] | 80 | 80 | 180 | 180 | 350 | 350 | 600 |
| Product weight [g] | 10 | 10 | 15 | 15 | 50 | 50 | 50 |

Operating and environmental conditions – Clamping unit

| | | |
|------------------------------------|--|------|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] | |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | |
| Min. release pressure | [MPa] | 0.3 |
| | [bar] | 3 |
| Max. operating pressure | [MPa] | ≤ 1 |
| | [bar] | ≤ 10 |

General technical data – End-position locking

| Size | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|---|---|----|-----|-----|-----|-----|-----|
| Function | <ul style="list-style-type: none"> Mechanical locking when the end position is reached For fixing the slide in the unpressurised, retracted state Form-fitting | | | | | | |
| Type of clamping with effective direction | At both ends Clamping via spring force, unlocked via compressed air | | | | | | |
| Pneumatic connection | M5 | | | | | | |
| Mounting position | Any | | | | | | |
| Static holding force [N] | 60 | 60 | 160 | 160 | 250 | 380 | 640 |
| Product weight [g] | 13 | 13 | 26 | 26 | 64 | 64 | 65 |

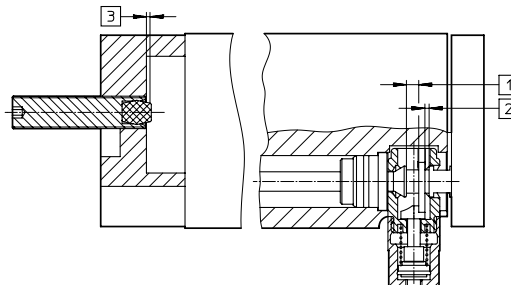
Operating and environmental conditions – End-position locking

| | | |
|------------------------------------|--|-------------|
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] | |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | |
| Operating pressure | [MPa] | 0.3 ... 0.8 |
| | [bar] | 3 ... 8 |

Data sheet

Adjustable end-position range

When using end-position locking (E3), the adjustable end-position range, the retracted end position, is reduced by the following values.



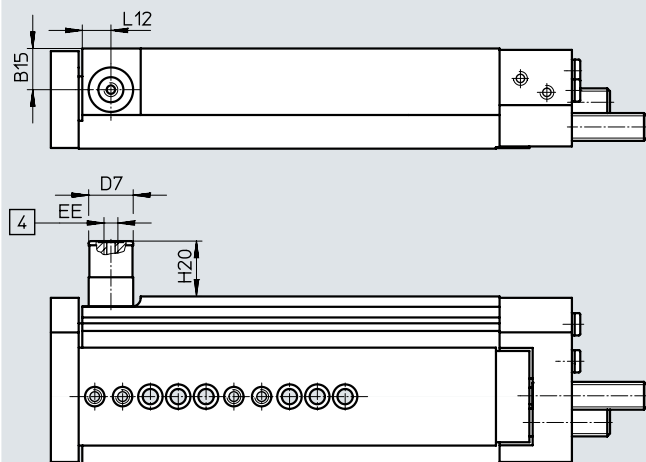
| Size | [3] |
|------------|-------------|
| 6, 8 | Max. 1.5 mm |
| 10, 12 | Max. 2.3 mm |
| 16, 20, 25 | Max. 2.7 mm |

- [1] Axial setting range
- [2] Max. cushioning stroke
- [3] Adjustable end-position range

Dimensions

Download CAD data → www.festo.com

C – Clamping unit/E3 – End-position locking



[4] Supply port

| Size | B15 | D7 ø | EE | H20 | | L12 |
|------|-------|---------|----|-------|-------|------|
| | | | | C | E3 | |
| 6 | 7.2 | 12 | M5 | 10.7 | 21.2 | 7.3 |
| 8 | 9.9 | 12 | | 10.5 | 21 | 7.3 |
| 10 | 11.2 | 16 | | 11.8 | 21.2 | 10.5 |
| 12 | 14.8 | 16 | | 10.5 | 19.9 | 10.3 |
| 16 | 14 | 20 | | 27.5 | 30.5 | 13 |
| 20 | 17 | 20 | | 21.3 | 24.3 | 14 |
| 25 | 22.55 | 20 | | 17.75 | 20.65 | 14 |

Data sheet

★ Core Range

| Ordering data | | | |
|-------------------|-------------|----------------|----------------|
| Size | Stroke [mm] | Part no. | Type |
| With cushioning P | | | |
| 8 | 10 | ★ 543926 | DGSL-8-10-PA |
| | 20 | ★ 543927 | DGSL-8-20-PA |
| | 30 | ★ 543928 | DGSL-8-30-PA |
| | 40 | ★ 543929 | DGSL-8-40-PA |
| | 50 | ★ 543930 | DGSL-8-50-PA |
| | 80 | ★ 543931 | DGSL-8-80-PA |
| 10 | 10 | ★ 543942 | DGSL-10-10-PA |
| | 20 | ★ 543943 | DGSL-10-20-PA |
| | 30 | ★ 543944 | DGSL-10-30-PA |
| | 40 | ★ 543945 | DGSL-10-40-PA |
| | 50 | ★ 543946 | DGSL-10-50-PA |
| | 80 | ★ 543947 | DGSL-10-80-PA |
| 12 | 100 | ★ 543948 | DGSL-10-100-PA |
| | 10 | ★ 543961 | DGSL-12-10-PA |
| | 20 | ★ 543962 | DGSL-12-20-PA |
| | 30 | ★ 543963 | DGSL-12-30-PA |
| | 40 | ★ 543964 | DGSL-12-40-PA |
| | 50 | ★ 543965 | DGSL-12-50-PA |
| 16 | 80 | ★ 543966 | DGSL-12-80-PA |
| | 100 | ★ 543967 | DGSL-12-100-PA |
| | 150 | ★ 543968 | DGSL-12-150-PA |
| | 10 | ★ 543983 | DGSL-16-10-PA |
| | 20 | ★ 543984 | DGSL-16-20-PA |
| | 30 | ★ 543985 | DGSL-16-30-PA |
| 20 | 40 | ★ 543986 | DGSL-16-40-PA |
| | 50 | ★ 543987 | DGSL-16-50-PA |
| | 80 | ★ 543988 | DGSL-16-80-PA |
| | 100 | ★ 543989 | DGSL-16-100-PA |
| | 150 | ★ 543990 | DGSL-16-150-PA |
| | 10 | ★ 544005 | DGSL-20-10-PA |
| 20 | ★ 544006 | DGSL-20-20-PA | |
| 30 | ★ 544007 | DGSL-20-30-PA | |
| 40 | ★ 544008 | DGSL-20-40-PA | |
| 50 | ★ 544009 | DGSL-20-50-PA | |
| 80 | ★ 544010 | DGSL-20-80-PA | |
| 100 | ★ 544011 | DGSL-20-100-PA | |
| 150 | ★ 544012 | DGSL-20-150-PA | |
| 200 | ★ 544013 | DGSL-20-200-PA | |

| Size | Stroke [mm] | Part no. | Type |
|--------------------|-------------|-----------------|-----------------|
| With cushioning Y3 | | | |
| 8 | 10 | - | |
| | 20 | | |
| | 30 | ★ 543938 | DGSL-8-30-Y3A |
| | 40 | ★ 543939 | DGSL-8-40-Y3A |
| | 50 | ★ 543940 | DGSL-8-50-Y3A |
| | 80 | ★ 543941 | DGSL-8-80-Y3A |
| 10 | 10 | - | |
| | 20 | | |
| | 30 | ★ 543956 | DGSL-10-30-Y3A |
| | 40 | ★ 543957 | DGSL-10-40-Y3A |
| | 50 | ★ 543958 | DGSL-10-50-Y3A |
| | 80 | ★ 543959 | DGSL-10-80-Y3A |
| 12 | 100 | ★ 543960 | DGSL-10-100-Y3A |
| | 10 | - | |
| | 20 | | |
| | 30 | ★ 543977 | DGSL-12-30-Y3A |
| | 40 | ★ 543978 | DGSL-12-40-Y3A |
| | 50 | ★ 543979 | DGSL-12-50-Y3A |
| 16 | 80 | ★ 543980 | DGSL-12-80-Y3A |
| | 100 | ★ 543981 | DGSL-12-100-Y3A |
| | 150 | ★ 543982 | DGSL-12-150-Y3A |
| | 10 | - | |
| | 20 | | |
| | 30 | ★ 543999 | DGSL-16-30-Y3A |
| 40 | ★ 544000 | DGSL-16-40-Y3A | |
| 50 | ★ 544001 | DGSL-16-50-Y3A | |
| 80 | ★ 544002 | DGSL-16-80-Y3A | |
| 100 | ★ 544003 | DGSL-16-100-Y3A | |
| 150 | ★ 544004 | DGSL-16-150-Y3A | |
| 20 | 10 | - | |
| | 20 | | |
| | 30 | ★ 544023 | DGSL-20-30-Y3A |
| | 40 | ★ 544024 | DGSL-20-40-Y3A |
| | 50 | ★ 544025 | DGSL-20-50-Y3A |
| | 80 | ★ 544026 | DGSL-20-80-Y3A |
| 100 | ★ 544027 | DGSL-20-100-Y3A | |
| 150 | ★ 544028 | DGSL-20-150-Y3A | |
| 200 | ★ 544029 | DGSL-20-200-Y3A | |

Data sheet

| Ordering data | | | | | | | |
|-------------------|----------------|----------|----------------|--------------------|----------------|-----------------|------|
| Size | Stroke [mm] | Part no. | Type | Size | Stroke [mm] | Part no. | Type |
| With cushioning P | | | | With cushioning Y3 | | | |
| 4 | 10 | 543910 | DGSL-4-10-PA | 4 | 10 | - | |
| | 20 | 543911 | DGSL-4-20-PA | | 20 | | |
| | 30 | 543912 | DGSL-4-30-PA | | 30 | | |
| 6 | 10 | 543916 | DGSL-6-10-PA | 6 | 10 | - | |
| | 20 | 543917 | DGSL-6-20-PA | | 20 | | |
| | 30 | 543918 | DGSL-6-30-PA | | 30 | | |
| | 40 | 543919 | DGSL-6-40-PA | | 40 | | |
| | 50 | 543920 | DGSL-6-50-PA | | 50 | | |
| 25 | 10 | 544030 | DGSL-25-10-PA | 25 | 10 | - | |
| | 20 | 544031 | DGSL-25-20-PA | | 20 | | |
| | 30 | 544032 | DGSL-25-30-PA | 30 | 544048 | DGSL-25-30-Y3A | |
| | 40 | 544033 | DGSL-25-40-PA | 40 | 544049 | DGSL-25-40-Y3A | |
| | 50 | 544034 | DGSL-25-50-PA | 50 | 544050 | DGSL-25-50-Y3A | |
| | 80 | 544035 | DGSL-25-80-PA | 80 | 544051 | DGSL-25-80-Y3A | |
| | 100 | 544036 | DGSL-25-100-PA | 100 | 544052 | DGSL-25-100-Y3A | |
| | 150 | 544037 | DGSL-25-150-PA | 150 | 544053 | DGSL-25-150-Y3A | |
| | 200 | 544038 | DGSL-25-200-PA | 200 | 544054 | DGSL-25-200-Y3A | |

Data sheet

| Ordering data | | | | | | | |
|--------------------|-------------|----------|-----------------|-------------------|-------------|----------|----------------|
| Size | Stroke [mm] | Part no. | Type | Size | Stroke [mm] | Part no. | Type |
| With cushioning P1 | | | | With cushioning E | | | |
| 4 | 10 | 543913 | DGSL-4-10-P1A | 4 | 10 | 570158 | DGSL-4-10-EA |
| | 20 | 543914 | DGSL-4-20-P1A | | 20 | 570159 | DGSL-4-20-EA |
| | 30 | 543915 | DGSL-4-30-P1A | | 30 | 570160 | DGSL-4-30-EA |
| 6 | 10 | 543921 | DGSL-6-10-P1A | 6 | 10 | 570161 | DGSL-6-10-EA |
| | 20 | 543922 | DGSL-6-20-P1A | | 20 | 570162 | DGSL-6-20-EA |
| | 30 | 543923 | DGSL-6-30-P1A | | 30 | 570163 | DGSL-6-30-EA |
| | 40 | 543924 | DGSL-6-40-P1A | | 40 | 570164 | DGSL-6-40-EA |
| | 50 | 543925 | DGSL-6-50-P1A | | 50 | 570165 | DGSL-6-50-EA |
| 8 | 10 | 543932 | DGSL-8-10-P1A | 8 | 10 | 570166 | DGSL-8-10-EA |
| | 20 | 543933 | DGSL-8-20-P1A | | 20 | 570167 | DGSL-8-20-EA |
| | 30 | 543934 | DGSL-8-30-P1A | | 30 | 570168 | DGSL-8-30-EA |
| | 40 | 543935 | DGSL-8-40-P1A | | 40 | 570169 | DGSL-8-40-EA |
| | 50 | 543936 | DGSL-8-50-P1A | | 50 | 570170 | DGSL-8-50-EA |
| | 80 | 543937 | DGSL-8-80-P1A | | 80 | 570171 | DGSL-8-80-EA |
| 10 | 10 | 543949 | DGSL-10-10-P1A | 10 | 10 | 570172 | DGSL-10-10-EA |
| | 20 | 543950 | DGSL-10-20-P1A | | 20 | 570173 | DGSL-10-20-EA |
| | 30 | 543951 | DGSL-10-30-P1A | | 30 | 570174 | DGSL-10-30-EA |
| | 40 | 543952 | DGSL-10-40-P1A | | 40 | 570175 | DGSL-10-40-EA |
| | 50 | 543953 | DGSL-10-50-P1A | | 50 | 570176 | DGSL-10-50-EA |
| | 80 | 543954 | DGSL-10-80-P1A | | 80 | 570177 | DGSL-10-80-EA |
| | 100 | 543955 | DGSL-10-100-P1A | | 100 | 570178 | DGSL-10-100-EA |
| 12 | 10 | 543969 | DGSL-12-10-P1A | 12 | 10 | 570179 | DGSL-12-10-EA |
| | 20 | 543970 | DGSL-12-20-P1A | | 20 | 570180 | DGSL-12-20-EA |
| | 30 | 543971 | DGSL-12-30-P1A | | 30 | 570181 | DGSL-12-30-EA |
| | 40 | 543972 | DGSL-12-40-P1A | | 40 | 570182 | DGSL-12-40-EA |
| | 50 | 543973 | DGSL-12-50-P1A | | 50 | 570183 | DGSL-12-50-EA |
| | 80 | 543974 | DGSL-12-80-P1A | | 80 | 570184 | DGSL-12-80-EA |
| | 100 | 543975 | DGSL-12-100-P1A | | 100 | 570185 | DGSL-12-100-EA |
| | 150 | 543976 | DGSL-12-150-P1A | | 150 | 570186 | DGSL-12-150-EA |

Data sheet

| Ordering data | | | | | | | |
|---------------|-------------|----------|-----------------|------|-------------|----------------|----------------|
| Size | Stroke [mm] | Part no. | Type | Size | Stroke [mm] | Part no. | Type |
| 16 | 10 | 543991 | DGSL-16-10-P1A | 16 | 10 | 570187 | DGSL-16-10-EA |
| | 20 | 543992 | DGSL-16-20-P1A | | 20 | 570188 | DGSL-16-20-EA |
| | 30 | 543993 | DGSL-16-30-P1A | | 30 | 570189 | DGSL-16-30-EA |
| | 40 | 543994 | DGSL-16-40-P1A | | 40 | 570190 | DGSL-16-40-EA |
| | 50 | 543995 | DGSL-16-50-P1A | | 50 | 570191 | DGSL-16-50-EA |
| | 80 | 543996 | DGSL-16-80-P1A | | 80 | 570192 | DGSL-16-80-EA |
| | 100 | 543997 | DGSL-16-100-P1A | | 100 | 570193 | DGSL-16-100-EA |
| | 150 | 543998 | DGSL-16-150-P1A | | 150 | 570194 | DGSL-16-150-EA |
| 20 | 10 | 544014 | DGSL-20-10-P1A | 20 | 10 | 570195 | DGSL-20-10-EA |
| | 20 | 544015 | DGSL-20-20-P1A | | 20 | 570196 | DGSL-20-20-EA |
| | 30 | 544016 | DGSL-20-30-P1A | | 30 | 570197 | DGSL-20-30-EA |
| | 40 | 544017 | DGSL-20-40-P1A | | 40 | 570198 | DGSL-20-40-EA |
| | 50 | 544018 | DGSL-20-50-P1A | | 50 | 570199 | DGSL-20-50-EA |
| | 80 | 544019 | DGSL-20-80-P1A | | 80 | 570200 | DGSL-20-80-EA |
| | 100 | 544020 | DGSL-20-100-P1A | | 100 | 570201 | DGSL-20-100-EA |
| | 150 | 544021 | DGSL-20-150-P1A | | 150 | 570202 | DGSL-20-150-EA |
| 25 | 10 | 544039 | DGSL-25-10-P1A | 25 | 10 | 570204 | DGSL-25-10-EA |
| | 20 | 544040 | DGSL-25-20-P1A | | 20 | 570205 | DGSL-25-20-EA |
| | 30 | 544041 | DGSL-25-30-P1A | | 30 | 570206 | DGSL-25-30-EA |
| | 40 | 544042 | DGSL-25-40-P1A | | 40 | 570207 | DGSL-25-40-EA |
| | 50 | 544043 | DGSL-25-50-P1A | | 50 | 570208 | DGSL-25-50-EA |
| | 80 | 544044 | DGSL-25-80-P1A | | 80 | 570209 | DGSL-25-80-EA |
| | 100 | 544045 | DGSL-25-100-P1A | | 100 | 570210 | DGSL-25-100-EA |
| | 150 | 544046 | DGSL-25-150-P1A | | 150 | 570211 | DGSL-25-150-EA |
| | 200 | 544047 | DGSL-25-200-P1A | 200 | 570212 | DGSL-25-200-EA | |

Ordering data for modular products → page 46

| Ordering data – Sets of wearing parts | | | | | |
|---------------------------------------|----------|-------------|------|----------|-------------|
| Size | Part no. | Type | Size | Part no. | Type |
| 4 | 713743 | DGSL-4-... | 12 | 713747 | DGSL-12-... |
| 6 | 713744 | DGSL-6-... | 16 | 713748 | DGSL-16-... |
| 8 | 713745 | DGSL-8-... | 20 | 713749 | DGSL-20-... |
| 10 | 713746 | DGSL-10-... | 25 | 713750 | DGSL-25-... |

Ordering data – Modular product system

| Ordering table | | | | | | | | | | | |
|----------------------|---|---|---------------|---------------|---------------|---------------|---------------|---------------|------------|------|------------|
| Size | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | Conditions | Code | Enter code |
| Module no. | 543902 | 543903 | 543904 | 543905 | 543906 | 543907 | 543908 | 543909 | | | |
| Function | Mini slide with recirculating ball bearing guide | | | | | | | | | DGSL | DGSL |
| Size | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | | -... | |
| Stroke [mm] | 10 | | | | | | | | | -10 | |
| | 20 | | | | | | | | | -20 | |
| | 30 | | | | | | | | | -30 | |
| | - | 40 | | | | | | | | -40 | |
| | - | 50 | | | | | | | | -50 | |
| | - | - | 80 | | | | | | -80 | | |
| | - | - | - | 100 | | | | | -100 | | |
| | - | - | - | - | 150 | | | | -150 | | |
| | - | - | - | - | - | - | 200 | | -200 | | |
| Clamping unit | - | Attached | | | | | | | | -C | |
| End-position locking | - | With retracted piston rod | | | | | | | [1] | -E3 | |
| Cushioning | Elastic cushioning rings/pads at both ends, end positions adjustable | | | | | | | | | -P | |
| | Elastic cushioning rings/pads at both ends, end positions adjustable, with fixed stop | | | | | | | | | -P1 | |
| | - | Progressive shock absorber, at both ends | | | | | | | [2] | -Y3 | |
| | Elastic cushioning rings/pads at both ends, end positions adjustable, short design | | | | | | | | | -E | |
| | - | Progressive shock absorber with reducing sleeve, at both ends | | | | | | | [2] | -Y11 | |
| | No cushioning | | | | | | | | | [2] | -N |
| Position sensing | Via proximity switch | | | | | | | | | A | A |

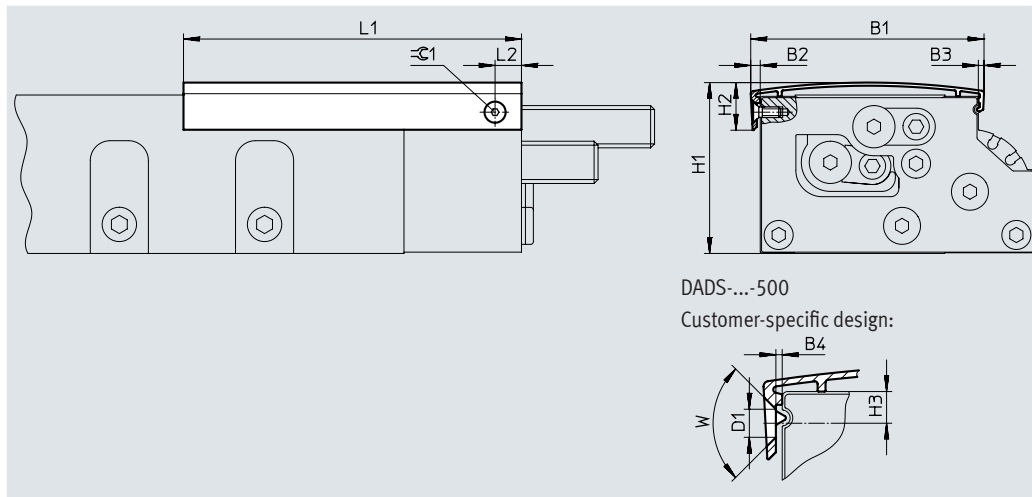
[1] **E3** Not with clamping unit C

[2] **Y3, Y11** Minimum stroke 30 mm


Accessories

Covering DADS

Material:
Anodised aluminium
Free of copper and PTFE
RoHS-compliant



| Dimensions and ordering data | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|-----|-----|------|-----|------|------|------|-----|-----|-----|-------------------------|------------|-------------------|------------------|
| For size | Length [mm] | B1 | B2 | B3 | B4 | D1 | H1 | H2 | H3 | L1 | L2 | W | $\approx \varnothing 1$ | Weight [g] | Part no. | Type |
| 4 | 30 | 22 | 1.9 | - | 0.4 | 2.8 | 17.9 | 7.5 | 2 | 40 | 4.5 | 90° | - | 2 | 1086663 | DADS-AB-G6-4-30 |
| | 500 | | | | | | | | | 27 | | | | 1212468 | DADS-AB-G6-4-500 | |
| 6 | 50 | 31.2 | 1.4 | - | 0 | 2.8 | 22 | 8.2 | 2.5 | 63 | 6 | 90° | - | 4 | 1066625 | DADS-AB-G6-6-50 |
| | 500 | | | | | | | | | 33 | | | | 1212476 | DADS-AB-G6-6-500 | |
| 8 | 80 | 36.3 | 1.9 | - | 0.3 | 2.8 | 26.5 | 8.2 | 2 | 93 | 7 | 90° | - | 8 | 1087413 | DADS-AB-G6-8-80 |
| | 500 | | | | | | | | | 42 | | | | 1212478 | DADS-AB-G6-8-500 | |
| 10 | 50 | 43.6 | 2.8 | 2.2 | 1.2 | 3.4 | 32 | 12 | 3.4 | 70 | 10 | 90° | 2 | 11 | 1162400 | DADS-AB-G6-10-50 |
| | 100 | | | | | | | | | 18 | | | | 1090689 | DADS-AB-G6-10-100 | |
| | 500 | | | | | | | | | 75 | | | | 1212479 | DADS-AB-G6-10-500 | |
| 12 | 50 | 51.7 | 2.7 | 2 | 0.5 | 3.4 | 38.8 | 12.8 | 4.25 | 72 | 10 | 90° | 2 | 12 | 1162406 | DADS-AB-G6-12-50 |
| | 150 | | | | | | | | | 28 | | | | 1090732 | DADS-AB-G6-12-150 | |
| | 500 | | | | | | | | | 82 | | | | 1212480 | DADS-AB-G6-12-500 | |
| 16 | 50 | 60 | 4.3 | 3.1 | 2.25 | 3.4 | 43.7 | 15.2 | 5 | 73 | 10 | 90° | 2 | 21 | 1162410 | DADS-AB-G6-16-50 |
| | 150 | | | | | | | | | 49 | | | | 1066591 | DADS-AB-G6-16-150 | |
| | 500 | | | | | | | | | 141 | | | | 1212503 | DADS-AB-G6-16-500 | |
| 20 | 50 | 74.8 | 3.6 | 2.8 | 1.2 | 4.4 | 53.2 | 18.9 | 6.5 | 74 | 10 | 90° | 2.5 | 28 | 1162412 | DADS-AB-G6-20-50 |
| | 100 | | | | | | | | | 46 | | | | 1162415 | DADS-AB-G6-20-100 | |
| | 200 | | | | | | | | | 83 | | | | 1090823 | DADS-AB-G6-20-200 | |
| | 500 | | | | | | | | | 184 | | | | 1212521 | DADS-AB-G6-20-500 | |
| 25 | 50 | 88.4 | 3.5 | 2.7 | 0.7 | 4.4 | 64.7 | 18.3 | 6 | 78 | 10 | 90° | 2.5 | 34 | 1162417 | DADS-AB-G6-25-50 |
| | 100 | | | | | | | | | 55 | | | | 1162419 | DADS-AB-G6-25-100 | |
| | 200 | | | | | | | | | 98 | | | | 1090895 | DADS-AB-G6-25-200 | |
| | 500 | | | | | | | | | 213 | | | | 1212523 | DADS-AB-G6-25-500 | |

 **Note**
With the 500 mm covers, the mounting hole must be made by the customer.

The cover can be shortened as required by the customer.

Accessories

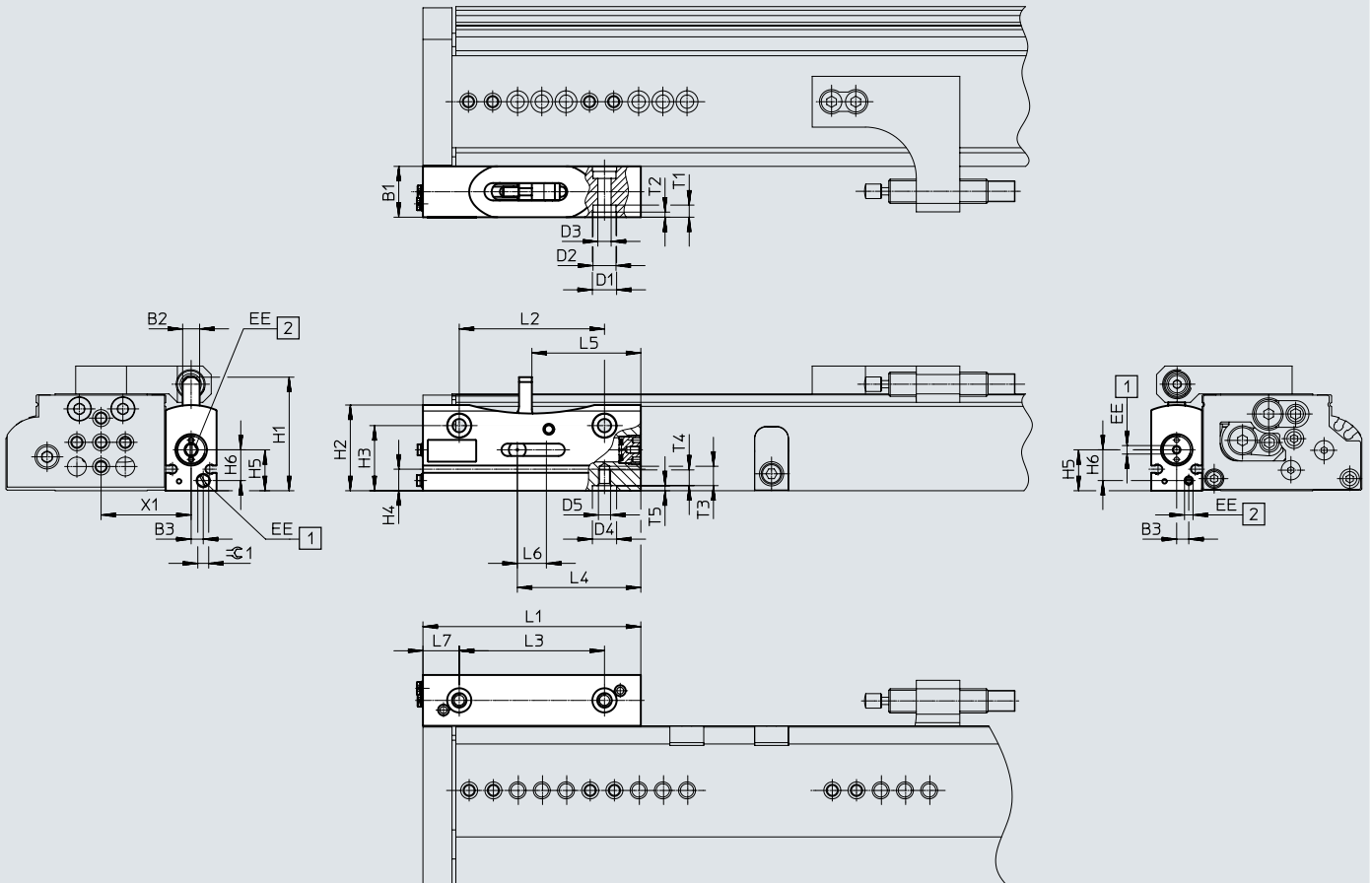
Intermediate-position module DADM

- The intermediate-position module enables an additional adjustable position within the stroke range. The module is mounted separately, directly next to the mini slide. It can be mounted anywhere along the mini slide.
- The associated shock absorber retainer → page 50 can be attached at several points on the slide. The position can be precisely set with the help of the shock absorber.
- The stop lever positions can be sensed using proximity switches SME/SMT → page 53
- Push-in fittings are not included in the scope of delivery

Material:
Housing:
Wrought aluminium alloy
Lever:
High-alloy stainless steel
RoHS-compliant

Dimensions and ordering data

Data sheets → Internet: dadm



- [1] Swivel stop lever in
- [2] Swivel stop lever out



Note
 With DADM-EP-G6-10: SME/SMT-10
 With DADM-EP-G6-16: SME/SMT-8

| For size | B1 | B2 | B3 | D1 | D2 | D3 | D4 | D5 | EE | H1 | H2 |
|----------|------|----|------|---------|-----|-----|---------|----|----|------|------|
| | | | ±0.1 | ∅ H7 | ∅ | ∅ | ∅ H7 | | | | |
| 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 |

Accessories

| For size | H3 | H4 | H5 | H6 | L1 | L2 | L3 | L4 | L5 | L6 | L7 |
|----------|------|------|------|------|-----|------|------|----|----|----|----|
| | ±0.1 | | ±0.1 | ±0.1 | | ±0.1 | ±0.1 | | | | |
| 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 | T3 | T4 | T5 | X1 | ≙1 | Weight | Part no. | Type |
|----------|-----|------|----|-----|------|------|-----|--------|----------|---------------|
| | | +0.2 | | | +0.1 | +0.2 | | [g] | | |
| 12 | 5 | 2.1 | 8 | 6.5 | 2.1 | 34.4 | 4.5 | 154 | 1492072 | DADM-EP-G6-10 |
| 16 | | | | | | | | | | |
| 20 | 6.8 | 2.1 | 10 | 8 | 2.1 | 48.5 | 2.5 | 340 | 1478121 | DADM-EP-G6-16 |
| 25 | | | | | | | | | | |

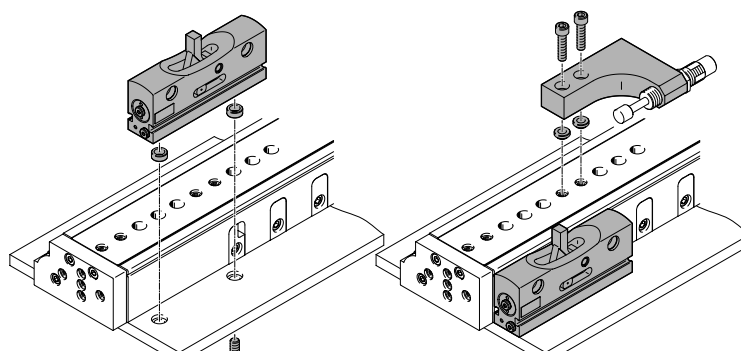
| Ordering data | | | | | |
|--|----------|---|----------|----------|------------------|
| | For size | Description | Part no. | Type | PU ¹⁾ |
| Connector sleeve ZBV Data sheets → Internet: zbv | | | | | |
|  | 12, 16 | For centring the intermediate-position module (2 pieces included in the scope of delivery for the intermediate-position module) | 560254 | ZBV-10-9 | 10 |
| Centring sleeve ZBH Data sheets → 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

Mounting

To ensure that the shock absorber strikes the stop lever centrally, we recommend mounting the intermediate-position module directly next to the mini slide (without a gap). 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, likewise using 2 screws and centring sleeves.



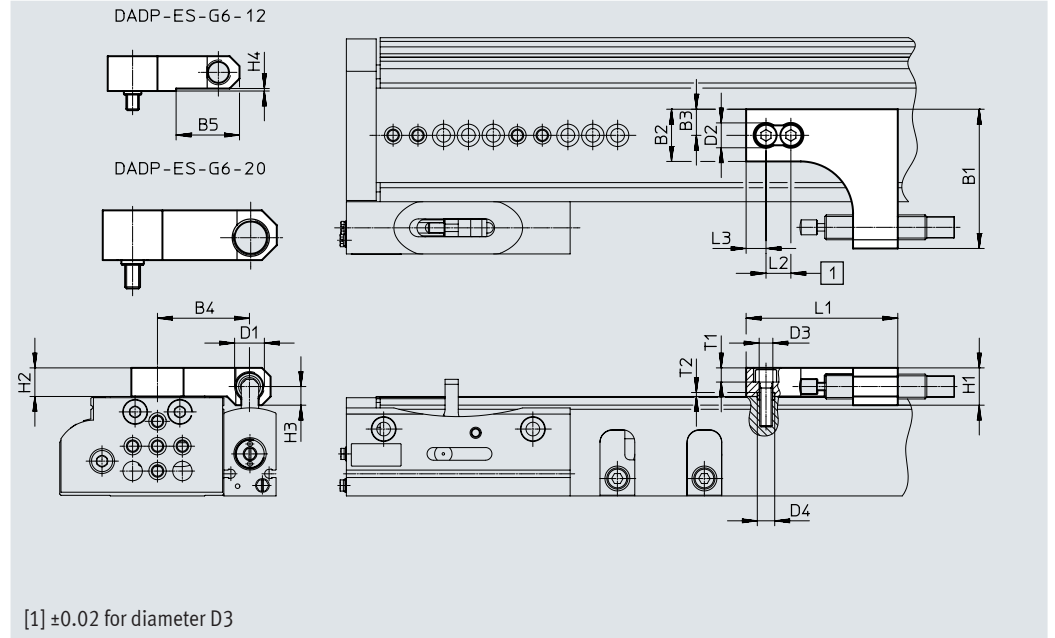
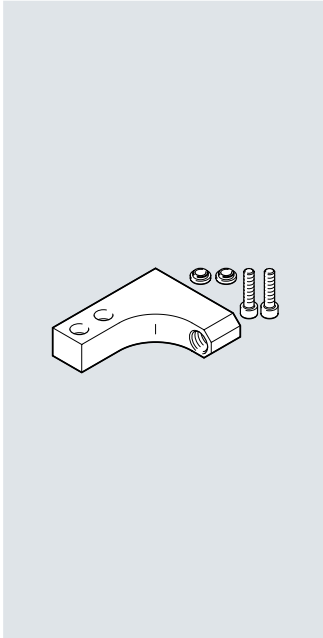
Precision adjustment:

The required stroke reduction can be precisely adjusted using 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 | B2 | B3 | B4 | B5 | D1 | D2 ∅ | D3 ∅ | D4 ∅ H7 | H1 | H2 |
|----------|----|----|------|------|------|-------|---------|---------|---------------|----|------|
| 12 | 53 | 20 | 10 | 34.5 | 25.5 | M10x1 | 10 | 5.5 | 7 | 13 | 14 |
| 16 | 56 | 21 | 10.5 | 37 | 39.2 | M12x1 | 10 | 5.5 | 7 | 15 | 12.2 |
| 20 | 70 | 24 | 12 | 47.5 | - | M14x1 | 11 | 6.6 | 12 | 20 | 20 |
| 25 | 80 | 30 | 15 | 54.5 | 58 | M16x1 | 11 | 6.6 | 12 | 25 | 14 |

| For size | H3 | H4 | L1 | L2 | L3 | T1 | T2 | Weight [g] | Part no. | Type |
|----------|-----|-----|----|----|----|-----|-----|---------------|----------|---------------|
| 12 | 6.5 | 1 | 65 | 10 | 10 | 5.7 | 1.6 | 80 | 1812471 | DADP-ES-G6-12 |
| 16 | 7.5 | 2.8 | 61 | 10 | 8 | 5.7 | 1.6 | 70 | 1812472 | DADP-ES-G6-16 |
| 20 | 9 | - | 85 | 20 | 10 | 6.4 | 2.6 | 185 | 1812473 | DADP-ES-G6-20 |
| 25 | 10 | 11 | 80 | 20 | 10 | 6.8 | 2.6 | 160 | 1812550 | DADP-ES-G6-25 |

Ordering data






| | For size | Description | Part no. | Type | PU ¹⁾ |
|--|----------|--|----------|----------|------------------|
| Centring sleeve ZBH Data sheets → Internet: zbh | | | | | |
| | 12, 16 | For centring the shock absorber retainer (2 pieces included in the scope of delivery of the shock absorber retainer) | 186717 | ZBH-7 | 10 |
| Connector sleeve ZBV Data sheets → Internet: zbv | | | | | |
| | 20, 25 | For centring the shock absorber retainer (2 pieces included in the scope of delivery of the shock absorber retainer) | 548806 | ZBV-12-9 | 10 |

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 shock absorbers for the mini slides and for the relevant shock absorber retainer are of identical size. Shock absorber selection → page 51
- 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 | | | | | | | |
|--|----------|-----------------------------|--|------------|----------|----------------|------------------|
| | For size | For shock absorber retainer | Description | Order code | Part no. | Type | PJ ¹⁾ |
| Shock absorber DYE-....Y1 Data sheets → Internet: dyef | | | | | | | |
|  | 4 | – | Elastic cushioning, without metal stop | P | 1179810 | DYEF-M4-Y1 | 1 |
| | 6 | – | | | 1179818 | DYEF-M5-Y1 | |
| | 8 | – | | | 1179831 | DYEF-M6-Y1 | |
| | 10 | – | | | 1179834 | DYEF-M8-Y1 | |
| | 12 | DADP-ES-G6-12 | | | 1179837 | DYEF-M10-Y1 | |
| | 16 | DADP-ES-G6-16 | | | 1179840 | DYEF-M12-Y1 | |
| | 20 | DADP-ES-G6-20 | | | 1179863 | DYEF-M14-Y1 | |
| | 25 | DADP-ES-G6-25 | | | 1179879 | DYEF-M16-Y1 | |
| Shock absorber DYE-S-....Y1 Data sheets → Internet: dyef | | | | | | | |
|  | 4 | – | Elastic cushioning, without metal stop, short design | E | 1152500 | DYEF-S-M4-Y1 | 1 |
| | 6 | – | | | 1152507 | DYEF-S-M5-Y1 | |
| | 8 | – | | | 1152524 | DYEF-S-M6-Y1 | |
| | 10 | – | | | 1152536 | DYEF-S-M8-Y1 | |
| | 12 | DADP-ES-G6-12 | | | 1152959 | DYEF-S-M10-Y1 | |
| | 16 | DADP-ES-G6-16 | | | 1153004 | DYEF-S-M12-Y1 | |
| | 20 | DADP-ES-G6-20 | | | 1153017 | DYEF-S-M14-Y1 | |
| | 25 | DADP-ES-G6-25 | | | 1153023 | DYEF-S-M16-Y1 | |
| Shock absorber DYE-....Y1F Data sheets → Internet: dyef | | | | | | | |
|  | 4 | – | Elastic cushioning, with metal stop | P1 | 548370 | DYEF-M4-Y1F | 1 |
| | 6 | – | | | 548371 | DYEF-M5-Y1F | |
| | 8 | – | | | 548372 | DYEF-M6-Y1F | |
| | 10 | – | | | 548373 | DYEF-M8-Y1F | |
| | 12 | DADP-ES-G6-12 | | | 548374 | DYEF-M10-Y1F | |
| | 16 | DADP-ES-G6-16 | | | 548375 | DYEF-M12-Y1F | |
| | 20 | DADP-ES-G6-20 | | | 548376 | DYEF-M14-Y1F | |
| | 25 | DADP-ES-G6-25 | | | 548377 | DYEF-M16-Y1F | |
| Shock absorber DYSW Data sheets → Internet: dysw | | | | | | | |
|  | 8 | – | Progressive shock absorber, at both ends | Y3 | 548070 | DYSW-4-6-Y1F | 1 |
| | 10 | – | | | 548071 | DYSW-5-8-Y1F | |
| | 12 | DADP-ES-G6-12 | | | 548072 | DYSW-7-10-Y1F | |
| | 16 | DADP-ES-G6-16 | | | 548073 | DYSW-8-14-Y1F | |
| | 20 | DADP-ES-G6-20 | | | 548074 | DYSW-10-17-Y1F | |
| | 25 | DADP-ES-G6-25 | | | 548075 | DYSW-12-20-Y1F | |
| Reducing sleeve DAYH Data sheets → Internet: dayh | | | | | | | |
|  | 10 | – | For DYSW-4-6 | – | 1165476 | DAYH-4 | 1 |
| | 12 | DADP-ES-G6-12 | For DYSW-5-8 | | 1165480 | DAYH-5 | |
| | 16 | DADP-ES-G6-16 | For DYSW-7-10 | | 1165484 | DAYH-7 | |
| | 20 | DADP-ES-G6-20 | For DYSW-8-14 | | 1165488 | DAYH-8 | |
| | 25 | DADP-ES-G6-25 | For DYSW-10-17 | | 1165491 | DAYH-10 | |

1) Packaging unit

Accessories


| Ordering data | | | | | |
|--|---------------|--|----------|----------|------------------|
| | For size | Description | Part no. | Type | PU ¹⁾ |
| Centring sleeve ZBH Data sheets → Internet: zbh | | | | | |
|  | 4, 6 | For centring loads and attachments (6 centring sleeves are included in the scope of delivery of the mini slide) | 189652 | ZBH-5 | 10 |
| | 8, 10, 12, 16 | | 186717 | ZBH-7 | |
| | 20, 25 | | 8137184 | ZBH-9-B | |
| Connector sleeve ZBV Data sheets → Internet: zbv | | | | | |
|  | 8, 10 | <ul style="list-style-type: none"> For connecting two mini slides DGSL Sizing information refers to the y axis | 548802 | ZBV-M4-7 | 3 |
| | 12, 16 | | 548803 | ZBV-M5-7 | |
| | 20, 25 | | 548804 | ZBV-M6-9 | |



1) Packaging unit

| Ordering data | | | | | |
|--|------------|---|--------------------|----------------|------------------|
| | For size | Description | Part no. | Type | PU ¹⁾ |
| One-way flow control valve GRLA Data sheets → Internet: grla | | | | | |
|  | 4, 6, 8 | <ul style="list-style-type: none"> For regulating speed Only one GRLA-M3-QS-3 can be mounted on the front with size 4 | 175041 | GRLA-M3-QS-3 | 1 |
| | 10, 12, 16 | | 175038 | GRLA-M3 | |
| | | | ★ 193137 | GRLA-M5-QS-3-D | |
| | 20, 25 | | ★ 193138 | GRLA-M5-QS-4-D | |
|  | 20, 25 | ★ 193143 | GRLA-1/8-QS-4-D | | |
| | | ★ 193144 | GRLA-1/8-QS-6-D | | |
| | | 162965 | GRLA-1/8-QS-6-RS-B | | |
| | | 162966 | GRLA-1/8-QS-8-RS-B | | |
| Push-in fitting QSM Data sheets → Internet: qs | | | | | |
|  | 4, 6, 8 | For connecting tubing with standard O.D. | ★ 153301 | QSM-M3-3 | 10 |
| | 10, 12, 16 | | ★ 153304 | QSM-M5-4 | |
| | 20, 25 | | ★ 153307 | QSM-1/8-6 | |


1) Packaging unit



Accessories



| Proximity switch for mini slide DGSL and intermediate-position module DADM-EP-G6-10 | | | | | | |
|---|---------------------------------|------------------|---|------------------|----------|----------------------------|
| Ordering data – Proximity switch for C-slot, magneto-resistive | | | | | | |
| | Type of mounting | Switching output | Electrical connection, outlet direction of connection | Cable length [m] | Part no. | Type |
| Data sheets → Internet: smt | | | | | | |
| N/O | | | | | | |
|  | Inserted in the slot from above | PNP | Cable, 3-wire, in-line | 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, lateral | 0.3 | 551376 | SMT-10M-PS-24V-E-0.3-Q-M8D |

| Ordering data – Proximity switch for C-slot, magnetic reed ¹⁾ | | | | | | |
|---|---------------------------------|------------------|---|------------------|----------|----------------------------|
| | Type of mounting | Switching output | Electrical connection, outlet direction of connection | Cable length [m] | Part no. | Type |
| Data sheets → Internet: sme | | | | | | |
| N/O | | | | | | |
|  | Inserted in the slot from above | Contacting | Plug M8x1, 3-pin, in-line | 0.3 | ★ 551367 | SME-10M-DS-24V-E-0.3-L-M8D |
| | | | Cable, 3-wire, in-line | 2.5 | ★ 551365 | SME-10M-DS-24V-E-2.5-L-OE |
| | | | Cable, 2-wire, in-line | 2.5 | ★ 551369 | SME-10M-ZS-24V-E-2.5-L-OE |
|  | Inserted in the slot lengthwise | Contacting | Plug M8x1, 3-pin, in-line | 0.3 | 173212 | SME-10-SL-LED-24 |
| | | | Cable, 3-wire, in-line | 2.5 | 173210 | SME-10-KL-LED-24 |

1) Proximity switches are not permitted on the mini-slide DGSL-4.

| Proximity switch for intermediate-position module DADM-EP-G6-16 | | | | | | |
|---|--|------------------|-----------------------|------------------|----------|---------------------------|
| Ordering data – Proximity switch for T-slot, magneto-resistive | | | | | | |
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part no. | Type |
| Data sheets → Internet: smt | | | | | | |
| N/O | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile, short design | PNP | Cable, 3-wire | 2.5 | ★ 574335 | SMT-8M-A-PS-24V-E-2.5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | ★ 574334 | SMT-8M-A-PS-24V-E-0.3-M8D |
| | | | Plug M12x1, 3-pin | 0.3 | ★ 574337 | SMT-8M-A-PS-24V-E-0.3-M12 |
| | | NPN | Cable, 3-wire | 2.5 | ★ 574338 | SMT-8M-A-NS-24V-E-2.5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | ★ 574339 | SMT-8M-A-NS-24V-E-0.3-M8D |


| Ordering data – Proximity switch for T-slot, magnetic reed | | | | | | |
|---|--|------------------|-----------------------|------------------|----------|-------------------------|
| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part no. | Type |
| Data sheets → Internet: sme | | | | | | |
| N/O | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | ★ 543862 | SME-8M-DS-24V-K-2.5-OE |
| | | | Cable, 3-wire | 5.0 | ★ 543863 | SME-8M-DS-24V-K-5.0-OE |
| | | | Cable, 2-wire | 2.5 | ★ 543872 | SME-8M-ZS-24V-K-2.5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | ★ 543861 | SME-8M-DS-24V-K-0.3-M8D |
|  | Inserted in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 150855 | SME-8-K-LED-24 |
| | | | Plug M8x1, 3-pin | 0.3 | 150857 | SME-8-S-LED-24 |

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

Accessories

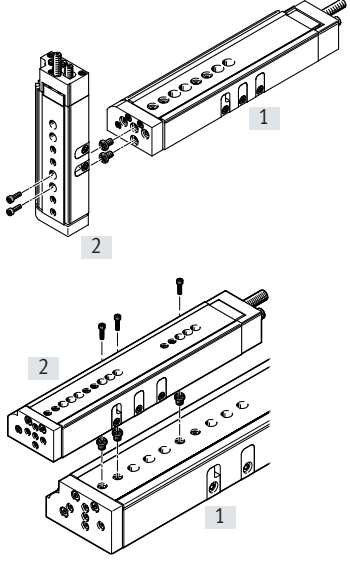
Adapter kit

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

 - **Note**
The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/drive combinations with adapter kit

Download CAD data → www.festo.com

| Combination | [1] Drive Size | [2] Drive Size | Adapter kit CRC ¹⁾ | Part no. | Type | Quantity required | PU ²⁾ |
|---|----------------|----------------|-------------------------------|----------|-----------------------------|-------------------|------------------|
|  | DGSL | DGSL | 2 | - | M3x7 DIN 912 ³⁾ | 2 | - |
| | 4 | 4 | | 189652 | ZBH-5 ⁴⁾ | 2 | 10 |
| | 6 | 4, 6 | | - | M3x10 DIN 912 ³⁾ | 2 | - |
| | 8, 10 | 4, 6 | | 189652 | ZBH-5 ⁴⁾ | 2 | 10 |
| | 8, 10 | 8 | | 548802 | ZBV-M4-7 | 1 | 3 |
| | 10 | 10 | | - | M4x12 DIN 912 ³⁾ | 2 | - |
| | 12, 16 | 8, 10 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | 12 | 12 | | - | M4x14 DIN 912 ³⁾ | 2 | - |
| | 16 | 12 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | 16 | 16 | | 548803 | ZBV-M5-7 | 1 | 3 |
| | 20, 25 | 12, 16 | | - | M5x14 DIN 912 ³⁾ | 2 | - |
| | 20, 25 | 20 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | 25 | 25 | | - | M5x16 DIN 912 ³⁾ | 2 | - |
| | | | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | | | | 548804 | ZBV-M6-9 | 1 | 3 |
| | | | | - | M6x20 DIN 912 ³⁾ | 2 | - |
| | | 8137184 | ZBH-9-B ⁴⁾ | 2 | 10 | | |
| | | - | M6x30 DIN 912 ³⁾ | 2 | - | | |
| | | 8137184 | ZBH-9-B ⁴⁾ | 2 | 10 | | |

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.
- 2) Packaging unit.
- 3) The screws listed are not included in the scope of delivery of the drives.
- 4) The centring sleeves are included in the scope of delivery of the drives.

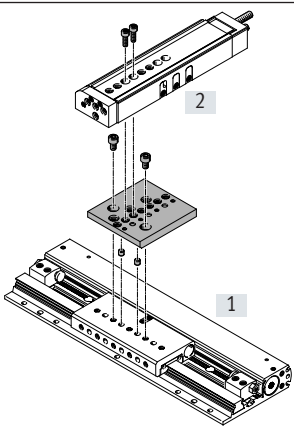
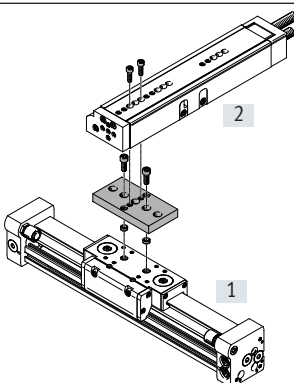
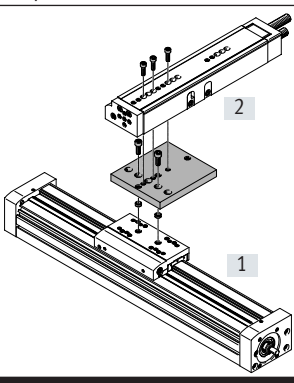
Accessories

Adapter kit
HAPS, HMSV

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

**Note**

The kit includes the individual mounting interface as well as the necessary mounting material.

| Permissible drive/drive combinations with adapter kit | | | | | | | Download CAD data → www.festo.com | |
|---|----------------|----------------|-------------------------------|---------------|----------------|-------------------|--|--|
| Combination | [1] Drive Size | [2] Drive Size | Adapter kit CRC ¹⁾ | Part no. | Type | Quantity required | PU ²⁾ | |
|  | SLG | DGSL | HAPS | | | | | |
| | 8, 12 | 4, 6 | 2 | 189533 | HAPS-11 | 1 | 1 | |
| | 12 | 8, 10 | | 189534 | HAPS-12 | 1 | 1 | |
| | 18 | 8, 10, 12 | | | | | | |
|  | DGC | DGSL | HMSV | | | | | |
| | 8, 12 | 4, 6 | 2 | 548777 | HMSV-47 | 1 | 1 | |
| | 18 | 8, 10 | | 548778 | HMSV-48 | 1 | 1 | |
| | 18 | 12, 16 | | 189657 | HMSV-41 | 1 | 1 | |
| | 25 | 12, 16, 20, 25 | | 548781 | HMSV-51 | 1 | 1 | |
| | 32, 40 | 20, 25 | | 548780 | HMSV-50 | 1 | 1 | |
| | | | | | | | | |
|  | DGE | DGSL | HMSV | | | | | |
| | 25 | 12, 16, 20, 25 | 2 | 548781 | HMSV-51 | 1 | 1 | |
| | 40 | 20, 25 | | 548780 | HMSV-50 | 1 | 1 | |
| | | | | | | | | |
| | | | | | | | | |

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

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

2) Packaging unit.

Accessories

Adapter kit
HMSV, DHAA

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

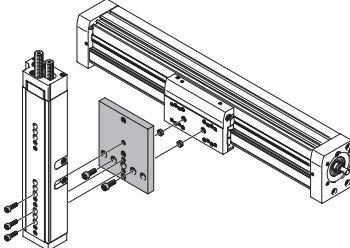
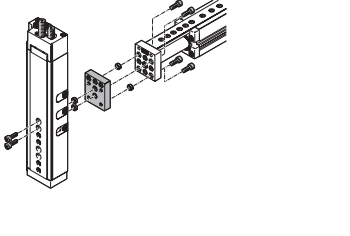
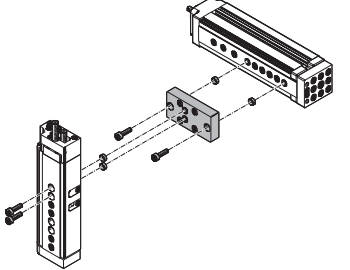
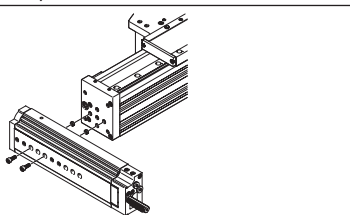


Note

The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/drive combinations with adapter kit

Download CAD data → www.festo.com

| Combination | [1] Drive Size | [2] Drive Size | Adapter kit CRC ¹⁾ | Part no. | Type | Quantity required | PU ²⁾ |
|--|----------------|----------------|-------------------------------|----------|-----------------------------|-------------------|------------------|
|  | EGC | DGSL | HMSV | | | | |
| | 50 | 4, 6 | 2 | 548777 | HMSV-47 | 1 | 1 |
| | 70 | 8, 10 | | 548778 | HMSV-48 | 1 | 1 |
| | 70 | 12, 16 | | 189657 | HMSV-41 | 1 | 1 |
| | 80 | 12, 16, 20, 25 | | 548781 | HMSV-51 | 1 | 1 |
| | 120 | 20, 25 | | 548780 | HMSV-50 | 1 | 1 |
|  | EGSL | DGSL | HMSV | | | | |
| | 35 | 4, 6, 8, 10 | 2 | 1088262 | HMSV-70 | 1 | – |
| | 45, 55 | 8, 10 | | 548803 | ZBV-M5-7 | 1 | 3 |
| | 45 | 12, 16 | | – | M5x14 DIN 912 ³⁾ | 2 | – |
| | 55 | 12, 16 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | | | | – | M5x12 DIN 912 ³⁾ | 2 | – |
| | 75 | 12, 16 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 |
| | 75 | 20 | | 548804 | ZBV-M6-9 | 1 | 3 |
| | 35 | 4, 6, 8, 10 | | – | M6x20 DIN 912 ³⁾ | 2 | – |
| | | | | 8137184 | ZBH-9-B ⁴⁾ | 2 | 10 |
|  | | | 2 | 1088327 | HMSV-73 | 1 | – |
| | | | | | | | |
|  | ELCC | DGSL | DHAA | | | | |
| | 60 | 8-50 | 2 | 5) | | – | – |
| | 60 | 10-50 | | 5) | | – | – |
| | 70 | 12-80 | | 5) | | – | – |
| | 70 | 16-80 | | 5) | | – | – |
| | 90, 110 | 20-150 | | 5) | | – | – |
| | 90, 110 | 25-150 | | 5) | | – | – |
| | | | | | | | |

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.
- 2) Packaging unit.
- 3) The screws listed are not included in the scope of delivery of the drives.
- 4) The centring sleeves are included in the scope of delivery of the drives.
- 5) No adapter kit required as direct mounting is possible

Festo - Your Partner in Automation



1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com

2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com

3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com

4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

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