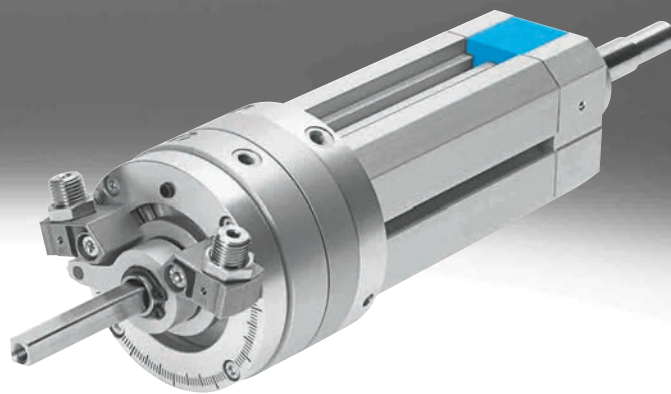


Swivel/linear units DSL-B

FESTO

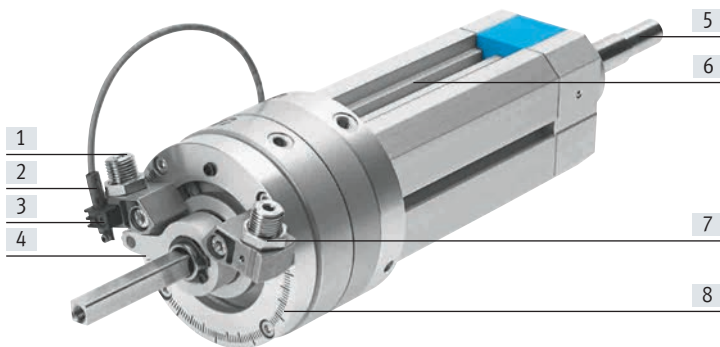


Key features

At a glance

- High repetition accuracy thanks to cushioning components with fixed stop
- Swivel angle can be infinitely and accurately set
- The mechanical gearing between the stop element and the swivel module prevents movement of the stop system under load
- Compact sensing of the swivel motion via proximity switches SME/SMT-10
- With plain-bearing guide
- With recirculating ball bearing guide
- Swivel motion of up to 270°
- Linear motion of up to 200 mm stroke
- The two movements can be controlled individually or simultaneously
- High rotational energy during swivelling due to self-adjusting shock absorbers which can be directly mounted
- Supply ports at one end for quick, clearly laid-out tubing connections
- High precision thanks to recirculating ball bearing guide
 - Backlash-free swivel motion
 - Torque load also possible during the linear motion

The technology in detail



[1] Cushioning

- Choice of two types of cushioning, each with metal fixed stop:
 - Elastic cushioning components
 - Hydraulic shock absorber

[2] Position sensing

- Compact sensing of the swivel position with proximity switches SME/SMT-10

[3] Sensor bracket

- The proximity switches are mounted directly on the stop system. The sensor retainer can be ordered as an accessory

[4] Stop lever

- The magnet in the stop lever enables the swivel angle to be sensed

[5] Piston rod

Mounting interface, for example for a gripper

[6] Slot for proximity switch

- Compact sensing of the linear position with proximity switches SME/SMT-8

[7] Precision end-position adjustment

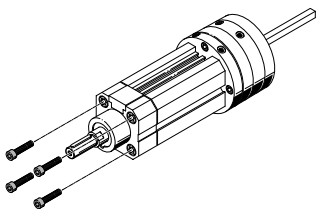
- After the lock nut is loosened, the end positions can be precisely adjusted using an Allen key

[8] Angle scale

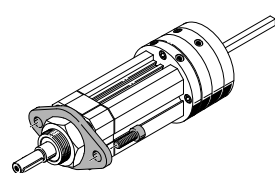
- The required swivel angle can be easily preset using the scale

Mounting options

Direct mounting

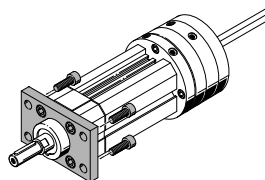


Flange mounting



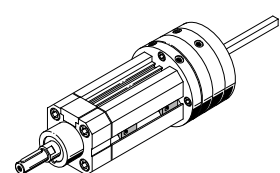
With size 16:
The mounting thread on the bearing cap complies with DIN ISO 6432.

Flange mounting



With size 20 ... 40:
Mounting hole pattern to DIN ISO 6431, VDMA 24 562 and NF E 49 003.1.

Via slot nuts



Type codes

| 001 | Series |
|-----|-----------------------------------|
| DSL | Swivel linear unit, double-acting |

| 002 | Size |
|-----|------|
| 16 | 16 |
| 20 | 20 |
| 25 | 25 |
| 32 | 32 |
| 40 | 40 |

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

| 004 | Swivel angle |
|-----|--------------|
| 270 | 270° |

| 005 | End-position cushioning |
|-----|--|
| P | Elastic cushioning components at both ends |
| CC | Shock absorber at both ends |

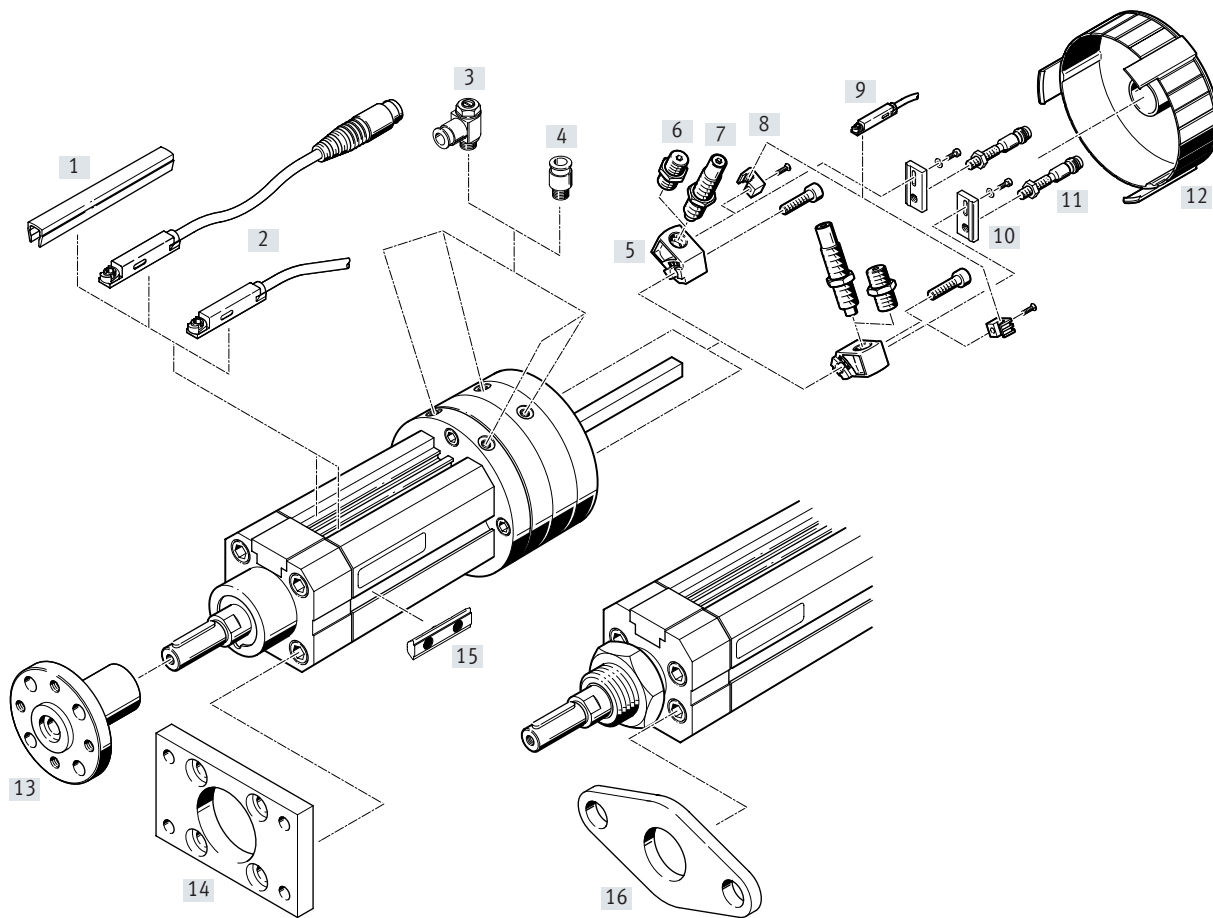
| 006 | Position sensing |
|-----|----------------------|
| A | For proximity sensor |

| 007 | Piston rod type |
|-----|----------------------------|
| S2 | Through piston rod |
| S20 | Through, hollow piston rod |

| 008 | Guide |
|-----|----------------------------------|
| | Plain-bearing guide |
| KF | Recirculating ball bearing guide |

| 009 | Generation |
|-----|------------|
| B | Series B |

Peripherals overview

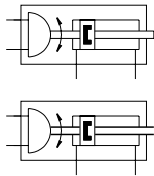


Peripherals overview

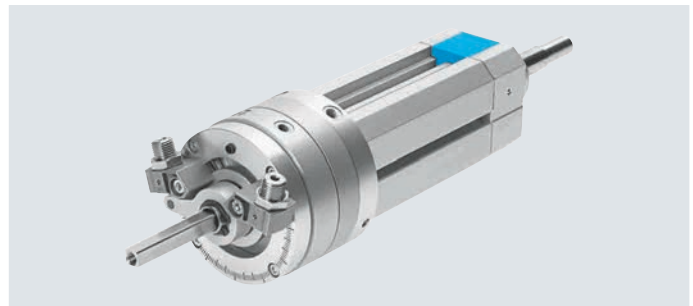
| Accessories | Description | → Page/Internet |
|--|--|-----------------|
| [1] Slot cover ABP | To protect the proximity switch cable and keep dirt out of the sensor/profile slots | 22 |
| [2] Proximity switch SME/SMT-8 | For sensing the linear position | 21 |
| [3] One-way flow control valve GRLA | For regulating speed | 20 |
| [4] Push-in fitting QS | For connecting tubing with standard O.D. | qs |
| [5] Cushioning mount DSM-B | <ul style="list-style-type: none"> For mounting elastic cushioning components or shock absorbers Included in the scope of delivery of swivel/linear unit DSL-...-P/CC | 20 |
| [6] Cushioning kit DSM-...-P-B | <ul style="list-style-type: none"> Elastic cushioning components with fixed stop Included in the scope of delivery of swivel/linear unit DSL-...-P | 20 |
| [7] Shock absorber DYSC | <ul style="list-style-type: none"> Self-adjusting shock absorbers with fixed stop Included in the scope of delivery of swivel/linear unit DSL-...-CC | 20 |
| [8] Sensor bracket SL-DSM-B | For mounting the proximity switches SME/SMT-10 | 21 |
| [9] Proximity switch SME/SMT-10 | For sensing the swivel position | 21 |
| [10] Sensor bracket SL-DSM-S | For mounting the inductive proximity switches SIEN | 21 |
| [11] Proximity switch SIEN | For sensing the swivel position | 21 |
| [12] Cover cap AKM | <ul style="list-style-type: none"> Reduces the risk of injury in the swivel range of the stop lever Cannot be used in combination with inductive proximity switch SIEN | 20 |
| [13] Push-on flange FWSR | For retrofitting the swivel/linear unit DSL | 19 |
| [14] Flange mounting FNC | For bearing cap of swivel/linear unit DSL-20 ... 40 | 18 |
| [15] Slot nut NST | For mounting the drive via the linear part | 19 |
| [16] Flange mounting FBN | For bearing cap of swivel/linear unit DSL-16 | 18 |
| – Adapters | For drive/drive connections | 23 |
| | For drive/gripper connections | gripper |




Data sheet

Function



 www.festo.com



-  Size
16 ... 40 mm
-  Stroke length
10 ... 200 mm
-  Force
1.25 ... 20 Nm

| General technical data | | | 16 | 20 | 25 | 32 | 40 |
|--|---------------------------------------|--------|---|-----|-----|------------|------------|
| Size | | | | | | | |
| Pneumatic connection | | | M5 | | | G1/8 | |
| Design | | | Rotary cylinder with vane combined with a double-acting linear cylinder | | | | |
| Cushioning | Swivel motion | | P – Flexible cushioning components at both ends CC – Shock absorber at both ends | | | | |
| | Linear motion | | P – Not adjustable at either end | | | | |
| Max. swivel angle | With cushioning P | [°] | 270 | 270 | 270 | 270 | 270 |
| | With cushioning CC | [°] | 246 | 246 | 246 | 246 | 240 |
| Max. swivel angle backlash ^{1/4)} | With plain-bearing guide | [°] | 2 | | | | |
| | With recirculating ball bearing guide | [°] | 0.05 | | | | |
| Swivel angle adjustment ²⁾ | With cushioning P | [°] | -6 | | | | |
| | With cushioning CC | [°] | -3 | | | | |
| Max. perm. swivel frequency ³⁾ | With cushioning P | [Hz] | 2 | 2 | 2 | 2 | 2 |
| | With cushioning CC | [Hz] | 1.5 | 1 | 1 | 0.7 | 0.7 |
| Stroke | With plain-bearing guide | [mm] | 10 ... 160 | | | 10 ... 200 | |
| | With recirculating ball bearing guide | [mm] | 10 ... 100 | | | | 10 ... 160 |
| Max. impact velocity | | [mm/s] | 500 | | | | |
| Repetition accuracy | With cushioning P | [°] | 1 | | | | |
| Swivel motion ⁴⁾ | With cushioning CC | [°] | 0.1 | | | | |
| Position sensing | | | Via proximity switch | | | | |
| Type of mounting | | | Clamped in T-slot With male thread | | | | |
| Mounting position | | | Any | | | | |

- 1) In new condition
- 2) Per side
- 3) At max. swivel angle
- 4) Important: Where there is an external, alternating force, the swivel angle play of the respective variant (plain-bearing guide GF or recirculating ball bearing guide KF) must be added to the swivel angle.

Data sheet

| Operating and environmental conditions | |
|--|--|
| 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 [bar] | 2.5 ... 8 |
| Ambient temperature ¹⁾ [°C] | -10 ... +60 |
| Corrosion resistance CRC ²⁾ | 1 |

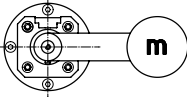
1) Note operating range of proximity switches


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

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

| Forces and torques | | 16 | 20 | 25 | 32 | 40 |
|--|---|-------|-------|-------|-------|-----|
| Size | | | | | | |
| Torque ¹⁾ [Nm] | | 1.25 | 2.5 | 5 | 10 | 20 |
| Force, advancing ¹⁾ | With plain-bearing guide [N] | 102.5 | 159 | 246 | 422.5 | 660 |
| | With recirculating ball bearing guide [N] | 103.5 | 158 | 248 | 403.5 | 603 |
| Force, retracting ¹⁾ [N] | | 73.5 | 120.5 | 173.5 | 294 | 495 |
| Max. permissible payload → page 9 [kg] | | 1 | 3 | 6 | 9 | 14 |

1) Theoretical values at 6 bar.

| Max. dynamic load torque (linear motion) | | 16 | 20 | 25 | 32 | 40 |
|--|--|------|------|------|-----|-----|
| Size | | | | | | |
|  | With plain-bearing guide [Nm] | 0.1 | 0.2 | 0.45 | 0.8 | 1.1 |
| | With recirculating ball bearing guide [Nm] | 0.17 | 0.35 | 0.7 | 1.0 | 5.4 |

 **Note**

The vane is not suitable for end-position fixing, i.e. the stop lever and stops must not be removed.

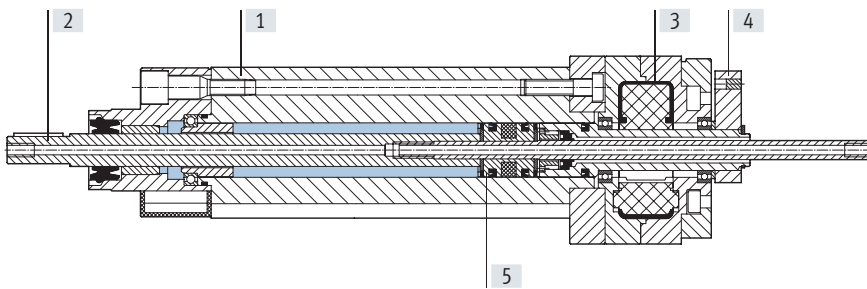
With plain-bearing guide:
With eccentric attachment of the payload and horizontal installation, increased friction forces arise internally, reducing the effective force of the linear motion.

Data sheet

| Weight [g] | 16 | | 20 | | 25 | | 32 | | 40 | |
|---|-----|--|------|--|------|--|------|--|------|--|
| Size | | | | | | | | | | |
| Plain-bearing guide | | | | | | | | | | |
| Cushioning P | 695 | | 1090 | | 1510 | | 2985 | | 5150 | |
| Cushioning CC | 697 | | 1130 | | 1605 | | 3020 | | 5205 | |
| Additional weight per 10 mm stroke | 33 | | 52 | | 67 | | 109 | | 170 | |
| Recirculating ball bearing guide | | | | | | | | | | |
| Cushioning P | 745 | | 1180 | | 1660 | | 3265 | | 5300 | |
| Cushioning CC | 747 | | 1220 | | 1755 | | 3300 | | 5355 | |
| Additional weight per 10 mm stroke | 33 | | 52 | | 67 | | 109 | | 175 | |

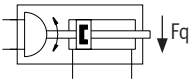
Materials

Sectional view

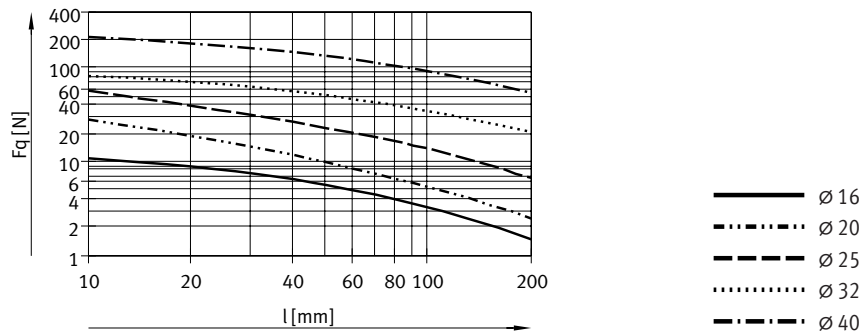
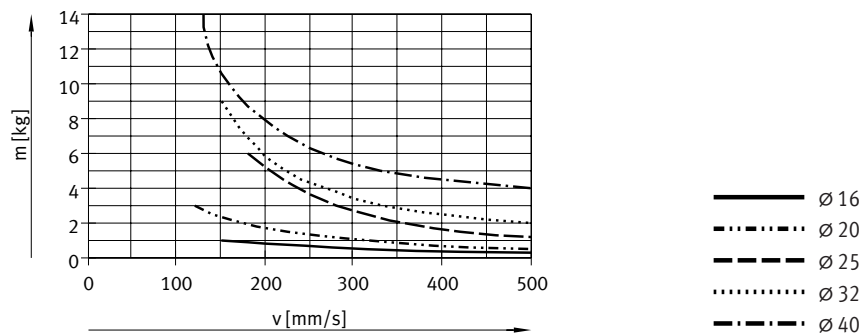
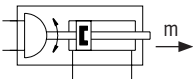


| Swivel/linear unit | | |
|--------------------|--------------------------------------|---|
| [1] | Cylinder barrel, housing | Smooth-anodised wrought aluminium alloy |
| [2] | Piston rod, shaft | Nickel-plated stainless steel |
| [3] | Vane | Glass fibre-reinforced plastic |
| [4] | Stop lever | Anodised aluminium |
| [5] | Piston | Brass |
| - | Fixed stops, shock absorber retainer | Stainless steel |
| - | Seals | Polyurethane |

Data sheet

Lateral force F_q as a function of stroke length l 

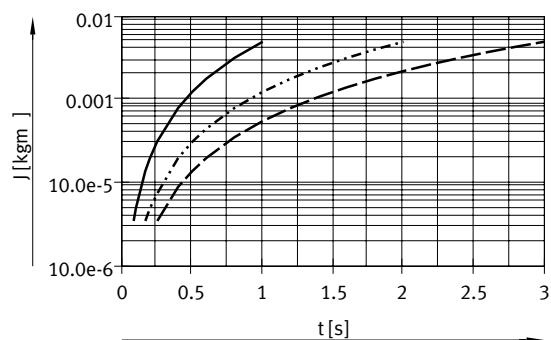
- Piston rod with bearings at both ends
- For high torques and lateral forces

Max. permissible payload as a function of piston speed v 

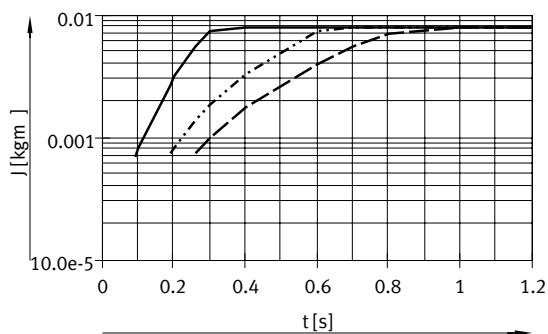
Data sheet

Max. permissible mass moment of inertia J as a function of swivel time t

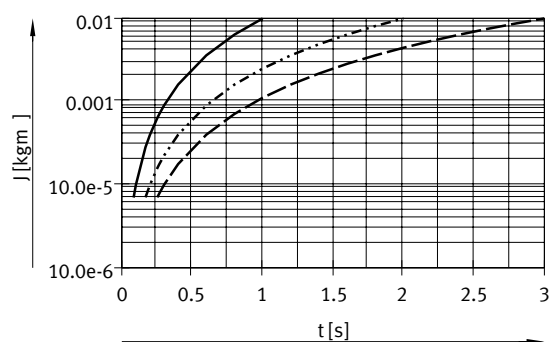
DSL-16-...-P



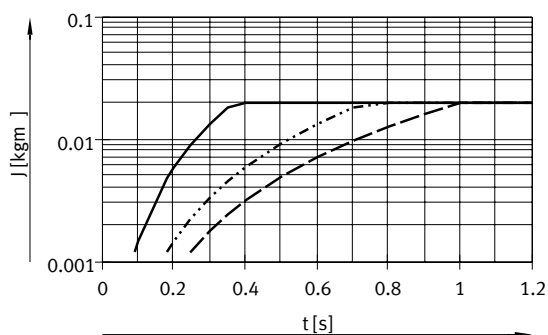
DSL-16-...-CC



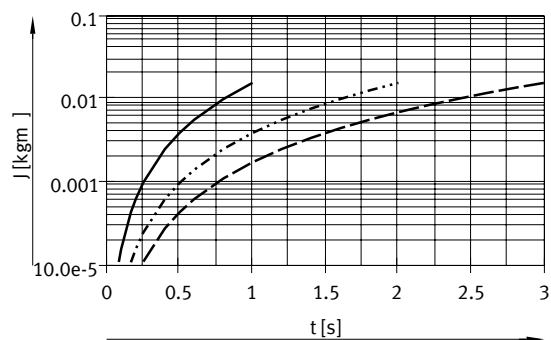
DSL-20-...-P



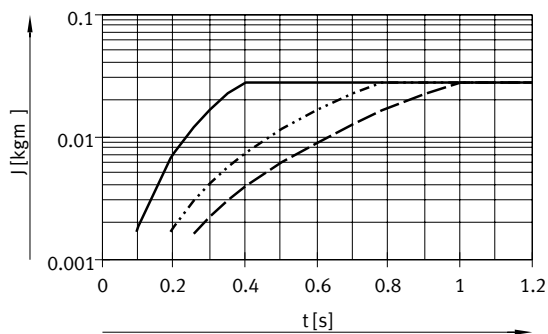
DSL-20-...-CC



DSL-25-...-P



DSL-25-...-CC

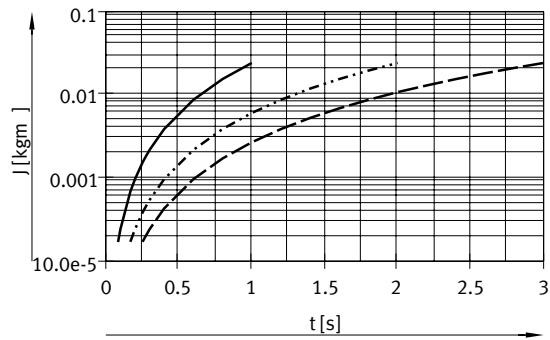


- 90°
- · - · - 180°
- - - 270°

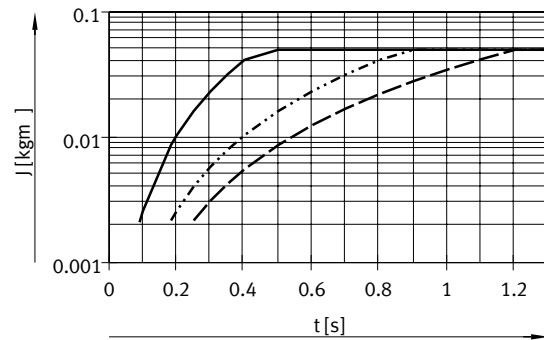
Data sheet

Max. permissible mass moment of inertia J as a function of swivel time t

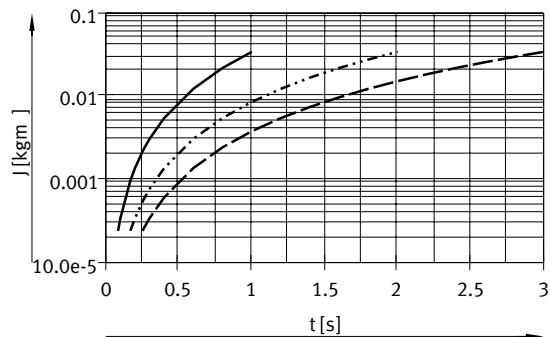
DSL-32-...-P



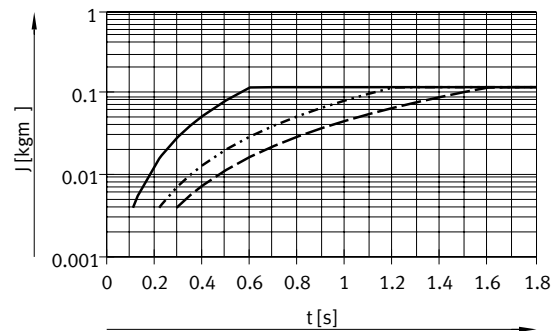
DSL-32-...-CC



DSL-40-...-P



DSL-40-...-CC



— 90°
 - · - · - 180°
 - - - 270°

Cushioning time of the shock absorber

| Size | 16/20/25 | 32 | 40 |
|-----------------|----------|------|-----|
| Cushioning time | [s] 0.1 | 0.25 | 0.3 |

Note

In the graphs for the types DSL-...-CC, the swivel time is shown up to the point when the stop lever meets the shock absorber. The cushioning time of the shock absorber must be added in order to obtain the total swivel time.

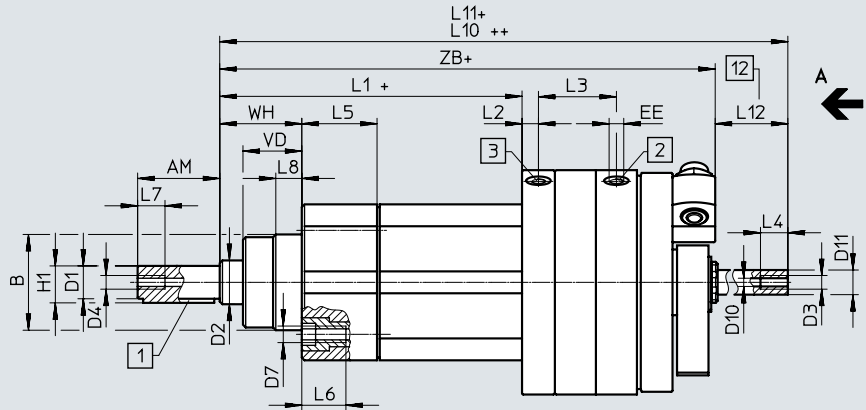
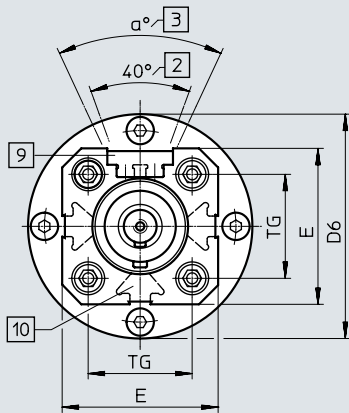
Note

Engineering software
for calculating inertia
→ www.festo.com

Data sheet

Dimensions

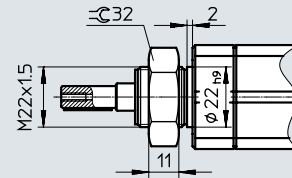
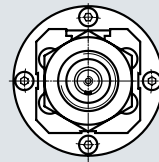
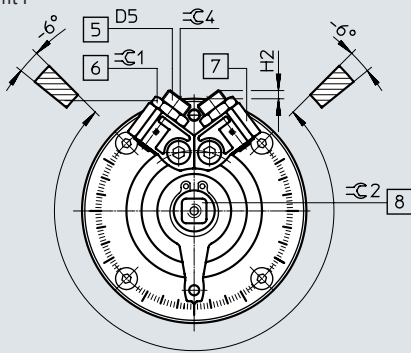
Download CAD data → www.festo.com



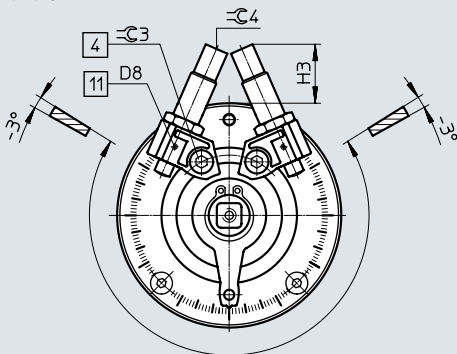
View A

Variant P

Piston \varnothing 16 mm



Variant CC



- | | | | |
|---|--|--|--|
| [1] Featherkey position at 0° | [5] End-position adjustment | [9] Sensor slot for proximity switch SME/SMT-8 | [12] Piston rod projection: Occurs for some variants in combination with S2, always for S20 → Page 13 bottom |
| [2] Supply port, swivel part | [6] Lock nut for end-position adjustment | [10] Mounting slots | |
| [3] Supply port, linear part | [7] Infinitely adjustable fixed stops | [11] Mounting thread for sensor bracket | |
| [4] Locking screw for clamping the stop | [8] Manual override (square) | | |

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

Data sheet

| Size | AM | B ∅ d11 | D1 ∅ g7 | D2 ∅ f8 | D3 ¹⁾ | | D4 | | D5 | D6 ∅ ±0.2 | D7 | D8 |
|------|--------|---------------|---------------|---------------|------------------|-----|----|-----|-------|-----------------|----|----|
| | | | | | S2 | S20 | S2 | S20 | | | | |
| 16 | 20±0.2 | – | 8 | 10 | M3 | M3 | M3 | M3 | M8x1 | 58 | – | M2 |
| 20 | 23±0.2 | 30 | 10 | 12 | M5 | M5 | M5 | M5 | M10x1 | 69 | M6 | M2 |
| 25 | 30±0.2 | 35 | 12 | 16 | M5 | M5 | M5 | M5 | M10x1 | 82 | M6 | M2 |
| 32 | 40±0.3 | 40 | 16 | 20 | M5 | M5 | M5 | M5 | M12x1 | 104 | M8 | M2 |
| 40 | 50±0.3 | 45 | 20 | 25 | M6 | M7 | M6 | M7 | M16x1 | 128 | M8 | M2 |

| Size | D11 ¹⁾ | E | EE | H1 max. | H2 | H3 | L1 ¹⁾ | L2 ±0.2 | L3 | L4 |
|------|-------------------|------|------|------------|-----|------|------------------|------------|----------|--------------------|
| | | | | | | | | | | |
| 20 | – | 50 | M5 | 11.2 | 8.1 | 27.7 | 95+1.1/-1.3 | 6 | 26.2±0.6 | 10 ⁺¹ |
| 25 | – | 57 | M5 | 13.5 | 4 | 22 | 100.5+1.2/-1.3 | 6 | 29.5±0.6 | 10 ⁺¹ |
| 32 | – | 72 | G1/8 | 18 | 6 | 30.5 | 111+1.3/-1.4 | 9 | 39.5±0.6 | 12.5 ⁺² |
| 40 | – | 83.5 | G1/8 | 22.5 | 5.7 | 45.5 | 132+1.3/-1.4 | 9 | 44.7±0.6 | 6.5 ⁺² |

| Size | L5 | L6 +2 | L7 | L8 ±0.3 | L10 ¹⁾ | TG | VD | WH |
|------|----------------------|----------|--------------------|------------|-------------------|------|----------|-------------|
| | | | | | | | | |
| 20 | 26 ^{-0.2} | 17 | 10 ⁺¹ | 10.5 | 175+0.8/-0.1 | 32.5 | 19±0.2 | 26+1.3/-1.7 |
| 25 | 27.5 ^{-0.2} | 17 | 10 ⁺¹ | 10.5 | 186.5+0.8/-0.1 | 38 | 21.5±0.2 | 30+1.4/-1.7 |
| 32 | 28.5 ^{-0.2} | 21 | 12.5 ⁺² | 12 | 224+0.6/-0.2 | 46.5 | 28.5±0.3 | 37+1.4/-1.8 |
| 40 | 35 ^{-0.2} | 18 | 14 ⁺² | 15 | 263+0.6/-0.2 | 56.5 | 34.7±0.3 | 46+1.4/-1.8 |

| Size | ZB ¹⁾ | a | ≈G1 | ≈G2 | ≈G3 | ≈G4 | Featherkey to DIN 6885 | D10 min. ∅ S20 |
|------|------------------|-----|-----|-----|-----|-----|------------------------------|----------------------|
| | | | | | | | | |
| 20 | 161.8+1.4/-1.5 | 50° | 13 | 7 | 3 | 3 | A3x3x18 | 3.2 |
| 25 | 173.4+1.4/-1.2 | 50° | 13 | 9 | 4 | 3 | A4x4x25 | 4.2 |
| 32 | 205+1.5/-1.9 | 50° | 15 | 10 | 5 | 4 | A5x5x36 | 4.2 |
| 40 | 243.5+1.5/-1.9 | 50° | 19 | 12 | 8 | 5 | A6x6x45 | 5.6 |

1) Dimensions for variant with plain-bearing guide. Dimensions vary for variant with recirculating ball bearing guide, see below.

Deviating dimensions for variant with recirculating ball bearing guide KF

| Size | Stroke | D3 | | D11 ∅ H7 | L1 | L11 | | | ZB |
|-------|--------|-----|-----|----------------|--------------|------------------|-------------------|------------------|----------------|
| | | S2 | S20 | | | S2* +0.8/-0.1 | S2** +0.8/-0.1 | S20 +0.8/-0.1 | |
| 16 | 25 | – | M3 | 6 | 104+1.1/-1.3 | *** | 213 | 198 | 159.6+1.4/-1.5 |
| | ≤ 50 | | | | | *** | | 223 | |
| | > 50 | | | | | 213 | | 273 | |
| 20 | ≤ 50 | – | M5 | 8 | 111+1.1/-1.3 | *** | 225 | 241 | 177.7+1.4/-1.5 |
| | > 50 | | | | | 225 | | 291 | |
| | ≤ 50 | | | | | – | | M5 | |
| > 50 | 238 | 316 | | | | | | | |
| 32 | ≤ 50 | – | M7 | 13 | 143+1.3/-1.4 | | *** | | 253 |
| | > 50 | | | | | 253 | 355 | | |
| | 40 | | | | | ≤ 50 | – | G1/8 | |
| > 50 | | *** | 414 | | | | | | |
| > 100 | | 352 | 464 | | | | | | |

* Dimensions for standard strokes

** Dimensions for X-strokes (→ ordering data starting on page 14)

*** Profile rod does not protrude beyond the drive unit

Data sheet

| Ordering data – With recirculating ball bearing guide | | | | | | |
|---|----------------|---|-------------------------|----------------------------------|--------------------------|--|
| Size | Stroke [mm] | P – Flexible cushioning components at both ends | | CC – Shock absorber at both ends | | |
| | | Part no. | Type | Part no. | Type | |
| S2 – Through piston rod | | | | | | |
| 16 | 25 | 556390 | DSL-16-25-270-P-A-S2-B | 556391 | DSL-16-25-270-CC-A-S2-B | |
| | 40 | 556396 | DSL-16-40-270-P-A-S2-B | 556397 | DSL-16-40-270-CC-A-S2-B | |
| | 50 | 556402 | DSL-16-50-270-P-A-S2-B | 556403 | DSL-16-50-270-CC-A-S2-B | |
| | 80 | 556408 | DSL-16-80-270-P-A-S2-B | 556409 | DSL-16-80-270-CC-A-S2-B | |
| | 100 | 556414 | DSL-16-100-270-P-A-S2-B | 556415 | DSL-16-100-270-CC-A-S2-B | |
| | 10 ... 160* | 556420 | DSL-16-...-270-P-A-S2-B | 556421 | DSL-16-...-270-CC-A-S2-B | |
| 20 | 25 | 556426 | DSL-20-25-270-P-A-S2-B | 556427 | DSL-20-25-270-CC-A-S2-B | |
| | 40 | 556432 | DSL-20-40-270-P-A-S2-B | 556433 | DSL-20-40-270-CC-A-S2-B | |
| | 50 | 556438 | DSL-20-50-270-P-A-S2-B | 556439 | DSL-20-50-270-CC-A-S2-B | |
| | 80 | 556444 | DSL-20-80-270-P-A-S2-B | 556445 | DSL-20-80-270-CC-A-S2-B | |
| | 100 | 556450 | DSL-20-100-270-P-A-S2-B | 556451 | DSL-20-100-270-CC-A-S2-B | |
| | 10 ... 160* | 556456 | DSL-20-...-270-P-A-S2-B | 556457 | DSL-20-...-270-CC-A-S2-B | |
| 25 | 25 | 556462 | DSL-25-25-270-P-A-S2-B | 556463 | DSL-25-25-270-CC-A-S2-B | |
| | 40 | 556468 | DSL-25-40-270-P-A-S2-B | 556469 | DSL-25-40-270-CC-A-S2-B | |
| | 50 | 556474 | DSL-25-50-270-P-A-S2-B | 556475 | DSL-25-50-270-CC-A-S2-B | |
| | 80 | 556480 | DSL-25-80-270-P-A-S2-B | 556481 | DSL-25-80-270-CC-A-S2-B | |
| | 100 | 556486 | DSL-25-100-270-P-A-S2-B | 556487 | DSL-25-100-270-CC-A-S2-B | |
| | 10 ... 160* | 556492 | DSL-25-...-270-P-A-S2-B | 556493 | DSL-25-...-270-CC-A-S2-B | |
| 32 | 25 | 556498 | DSL-32-25-270-P-A-S2-B | 556499 | DSL-32-25-270-CC-A-S2-B | |
| | 40 | 556504 | DSL-32-40-270-P-A-S2-B | 556505 | DSL-32-40-270-CC-A-S2-B | |
| | 50 | 556510 | DSL-32-50-270-P-A-S2-B | 556511 | DSL-32-50-270-CC-A-S2-B | |
| | 80 | 556516 | DSL-32-80-270-P-A-S2-B | 556517 | DSL-32-80-270-CC-A-S2-B | |
| | 100 | 556522 | DSL-32-100-270-P-A-S2-B | 556523 | DSL-32-100-270-CC-A-S2-B | |
| | 10 ... 200* | 556528 | DSL-32-...-270-P-A-S2-B | 556529 | DSL-32-...-270-CC-A-S2-B | |
| 40 | 25 | 556534 | DSL-40-25-270-P-A-S2-B | 556535 | DSL-40-25-270-CC-A-S2-B | |
| | 40 | 556540 | DSL-40-40-270-P-A-S2-B | 556541 | DSL-40-40-270-CC-A-S2-B | |
| | 50 | 556546 | DSL-40-50-270-P-A-S2-B | 556547 | DSL-40-50-270-CC-A-S2-B | |
| | 80 | 556552 | DSL-40-80-270-P-A-S2-B | 556553 | DSL-40-80-270-CC-A-S2-B | |
| | 100 | 556558 | DSL-40-100-270-P-A-S2-B | 556559 | DSL-40-100-270-CC-A-S2-B | |
| | 125 | 556564 | DSL-40-125-270-P-A-S2-B | 556565 | DSL-40-125-270-CC-A-S2-B | |
| | 160 | 556570 | DSL-40-160-270-P-A-S2-B | 556571 | DSL-40-160-270-CC-A-S2-B | |
| | 10 ... 200* | 556576 | DSL-40-...-270-P-A-S2-B | 556577 | DSL-40-...-270-CC-A-S2-B | |

*) X-strokes

Data sheet

| Ordering data – With recirculating ball bearing guide | | | | | | |
|---|----------------|---|--------------------------|----------------------------------|---------------------------|--|
| Size | Stroke [mm] | P – Flexible cushioning components at both ends | | CC – Shock absorber at both ends | | |
| | | Part no. | Type | Part no. | Type | |
| S20 – Through, hollow piston rod | | | | | | |
| 16 | 25 | 556393 | DSL-16-25-270-P-A-S20-B | 556394 | DSL-16-25-270-CC-A-S20-B | |
| | 40 | 556399 | DSL-16-40-270-P-A-S20-B | 556400 | DSL-16-40-270-CC-A-S20-B | |
| | 50 | 556405 | DSL-16-50-270-P-A-S20-B | 556406 | DSL-16-50-270-CC-A-S20-B | |
| | 80 | 556411 | DSL-16-80-270-P-A-S20-B | 556412 | DSL-16-80-270-CC-A-S20-B | |
| | 100 | 556417 | DSL-16-100-270-P-A-S20-B | 556418 | DSL-16-100-270-CC-A-S20-B | |
| | 10 ... 160* | 556423 | DSL-16-...-270-P-A-S20-B | 556424 | DSL-16-...-270-CC-A-S20-B | |
| 20 | 25 | 556429 | DSL-20-25-270-P-A-S20-B | 556430 | DSL-20-25-270-CC-A-S20-B | |
| | 40 | 556435 | DSL-20-40-270-P-A-S20-B | 556436 | DSL-20-40-270-CC-A-S20-B | |
| | 50 | 556441 | DSL-20-50-270-P-A-S20-B | 556442 | DSL-20-50-270-CC-A-S20-B | |
| | 80 | 556447 | DSL-20-80-270-P-A-S20-B | 556448 | DSL-20-80-270-CC-A-S20-B | |
| | 100 | 556453 | DSL-20-100-270-P-A-S20-B | 556454 | DSL-20-100-270-CC-A-S20-B | |
| | 10 ... 160* | 556459 | DSL-20-...-270-P-A-S20-B | 556460 | DSL-20-...-270-CC-A-S20-B | |
| 25 | 25 | 556465 | DSL-25-25-270-P-A-S20-B | 556466 | DSL-25-25-270-CC-A-S20-B | |
| | 40 | 556471 | DSL-25-40-270-P-A-S20-B | 556472 | DSL-25-40-270-CC-A-S20-B | |
| | 50 | 556477 | DSL-25-50-270-P-A-S20-B | 556478 | DSL-25-50-270-CC-A-S20-B | |
| | 80 | 556483 | DSL-25-80-270-P-A-S20-B | 556484 | DSL-25-80-270-CC-A-S20-B | |
| | 100 | 556489 | DSL-25-100-270-P-A-S20-B | 556490 | DSL-25-100-270-CC-A-S20-B | |
| | 10 ... 160* | 556495 | DSL-25-...-270-P-A-S20-B | 556496 | DSL-25-...-270-CC-A-S20-B | |
| 32 | 25 | 556501 | DSL-32-25-270-P-A-S20-B | 556502 | DSL-32-25-270-CC-A-S20-B | |
| | 40 | 556507 | DSL-32-40-270-P-A-S20-B | 556508 | DSL-32-40-270-CC-A-S20-B | |
| | 50 | 556513 | DSL-32-50-270-P-A-S20-B | 556514 | DSL-32-50-270-CC-A-S20-B | |
| | 80 | 556519 | DSL-32-80-270-P-A-S20-B | 556520 | DSL-32-80-270-CC-A-S20-B | |
| | 100 | 556525 | DSL-32-100-270-P-A-S20-B | 556526 | DSL-32-100-270-CC-A-S20-B | |
| | 10 ... 200* | 556531 | DSL-32-...-270-P-A-S20-B | 556532 | DSL-32-...-270-CC-A-S20-B | |
| 40 | 25 | 556537 | DSL-40-25-270-P-A-S20-B | 556538 | DSL-40-25-270-CC-A-S20-B | |
| | 40 | 556543 | DSL-40-40-270-P-A-S20-B | 556544 | DSL-40-40-270-CC-A-S20-B | |
| | 50 | 556549 | DSL-40-50-270-P-A-S20-B | 556550 | DSL-40-50-270-CC-A-S20-B | |
| | 80 | 556555 | DSL-40-80-270-P-A-S20-B | 556556 | DSL-40-80-270-CC-A-S20-B | |
| | 100 | 556561 | DSL-40-100-270-P-A-S20-B | 556562 | DSL-40-100-270-CC-A-S20-B | |
| | 125 | 556567 | DSL-40-125-270-P-A-S20-B | 556568 | DSL-40-125-270-CC-A-S20-B | |
| | 160 | 556573 | DSL-40-160-270-P-A-S20-B | 556574 | DSL-40-160-270-CC-A-S20-B | |
| | 10 ... 200* | 556579 | DSL-40-...-270-P-A-S20-B | 556580 | DSL-40-...-270-CC-A-S20-B | |

*) X-strokes

Data sheet

| Ordering data – With recirculating ball bearing guide | | | | | | |
|---|----------------|---|----------------------------|----------------------------------|-----------------------------|--|
| Size | Stroke [mm] | P – Flexible cushioning components at both ends | | CC – Shock absorber at both ends | | |
| | | Part no. | Type | Part no. | Type | |
| S2 – Through piston rod | | | | | | |
| 16 | 25 | 556582 | DSL-16-25-270-P-A-S2-KF-B | 556583 | DSL-16-25-270-CC-A-S2-KF-B | |
| | 40 | 556588 | DSL-16-40-270-P-A-S2-KF-B | 556589 | DSL-16-40-270-CC-A-S2-KF-B | |
| | 50 | 556594 | DSL-16-50-270-P-A-S2-KF-B | 556595 | DSL-16-50-270-CC-A-S2-KF-B | |
| | 80 | 556600 | DSL-16-80-270-P-A-S2-KF-B | 556601 | DSL-16-80-270-CC-A-S2-KF-B | |
| | 100 | 556606 | DSL-16-100-270-P-A-S2-KF-B | 556607 | DSL-16-100-270-CC-A-S2-KF-B | |
| | 10 ... 100* | 556612 | DSL-16-...-270-P-A-S2-KF-B | 556613 | DSL-16-...-270-CC-A-S2-KF-B | |
| 20 | 25 | 556618 | DSL-20-25-270-P-A-S2-KF-B | 556619 | DSL-20-25-270-CC-A-S2-KF-B | |
| | 40 | 556624 | DSL-20-40-270-P-A-S2-KF-B | 556625 | DSL-20-40-270-CC-A-S2-KF-B | |
| | 50 | 556630 | DSL-20-50-270-P-A-S2-KF-B | 556631 | DSL-20-50-270-CC-A-S2-KF-B | |
| | 80 | 556636 | DSL-20-80-270-P-A-S2-KF-B | 556637 | DSL-20-80-270-CC-A-S2-KF-B | |
| | 100 | 556642 | DSL-20-100-270-P-A-S2-KF-B | 556643 | DSL-20-100-270-CC-A-S2-KF-B | |
| | 10 ... 100* | 556648 | DSL-20-...-270-P-A-S2-KF-B | 556649 | DSL-20-...-270-CC-A-S2-KF-B | |
| 25 | 25 | 556654 | DSL-25-25-270-P-A-S2-KF-B | 556655 | DSL-25-25-270-CC-A-S2-KF-B | |
| | 40 | 556660 | DSL-25-40-270-P-A-S2-KF-B | 556661 | DSL-25-40-270-CC-A-S2-KF-B | |
| | 50 | 556666 | DSL-25-50-270-P-A-S2-KF-B | 556667 | DSL-25-50-270-CC-A-S2-KF-B | |
| | 80 | 556672 | DSL-25-80-270-P-A-S2-KF-B | 556673 | DSL-25-80-270-CC-A-S2-KF-B | |
| | 100 | 556678 | DSL-25-100-270-P-A-S2-KF-B | 556679 | DSL-25-100-270-CC-A-S2-KF-B | |
| | 10 ... 100* | 556684 | DSL-25-...-270-P-A-S2-KF-B | 556685 | DSL-25-...-270-CC-A-S2-KF-B | |
| 32 | 25 | 556690 | DSL-32-25-270-P-A-S2-KF-B | 556691 | DSL-32-25-270-CC-A-S2-KF-B | |
| | 40 | 556696 | DSL-32-40-270-P-A-S2-KF-B | 556697 | DSL-32-40-270-CC-A-S2-KF-B | |
| | 50 | 556702 | DSL-32-50-270-P-A-S2-KF-B | 556703 | DSL-32-50-270-CC-A-S2-KF-B | |
| | 80 | 556708 | DSL-32-80-270-P-A-S2-KF-B | 556709 | DSL-32-80-270-CC-A-S2-KF-B | |
| | 100 | 556714 | DSL-32-100-270-P-A-S2-KF-B | 556715 | DSL-32-100-270-CC-A-S2-KF-B | |
| | 10 ... 100* | 556720 | DSL-32-...-270-P-A-S2-KF-B | 556721 | DSL-32-...-270-CC-A-S2-KF-B | |
| 40 | 25 | 556726 | DSL-40-25-270-P-A-S2-KF-B | 556727 | DSL-40-25-270-CC-A-S2-KF-B | |
| | 40 | 556732 | DSL-40-40-270-P-A-S2-KF-B | 556733 | DSL-40-40-270-CC-A-S2-KF-B | |
| | 50 | 556738 | DSL-40-50-270-P-A-S2-KF-B | 556739 | DSL-40-50-270-CC-A-S2-KF-B | |
| | 80 | 556744 | DSL-40-80-270-P-A-S2-KF-B | 556745 | DSL-40-80-270-CC-A-S2-KF-B | |
| | 100 | 556750 | DSL-40-100-270-P-A-S2-KF-B | 556751 | DSL-40-100-270-CC-A-S2-KF-B | |
| | 125 | 556756 | DSL-40-125-270-P-A-S2-KF-B | 556757 | DSL-40-125-270-CC-A-S2-KF-B | |
| | 160 | 556762 | DSL-40-160-270-P-A-S2-KF-B | 556763 | DSL-40-160-270-CC-A-S2-KF-B | |
| | 10 ... 160* | 556768 | DSL-40-...-270-P-A-S2-KF-B | 556769 | DSL-40-...-270-CC-A-S2-KF-B | |

*) X-strokes

Data sheet

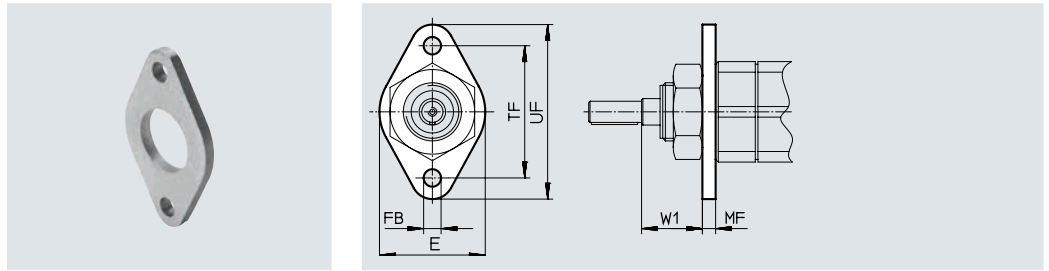
| Ordering data – With recirculating ball bearing guide | | | | | | |
|---|----------------|---|-----------------------------|----------------------------------|------------------------------|--|
| Size | Stroke [mm] | P – Flexible cushioning components at both ends | | CC – Shock absorber at both ends | | |
| | | Part no. | Type | Part no. | Type | |
| S20 – Through, hollow piston rod | | | | | | |
| 16 | 25 | 556585 | DSL-16-25-270-P-A-S20-KF-B | 556586 | DSL-16-25-270-CC-A-S20-KF-B | |
| | 40 | 556591 | DSL-16-40-270-P-A-S20-KF-B | 556592 | DSL-16-40-270-CC-A-S20-KF-B | |
| | 50 | 556597 | DSL-16-50-270-P-A-S20-KF-B | 556598 | DSL-16-50-270-CC-A-S20-KF-B | |
| | 80 | 556603 | DSL-16-80-270-P-A-S20-KF-B | 556604 | DSL-16-80-270-CC-A-S20-KF-B | |
| | 100 | 556609 | DSL-16-100-270-P-A-S20-KF-B | 556610 | DSL-16-100-270-CC-A-S20-KF-B | |
| | 10 ... 100* | 556615 | DSL-16-...-270-P-A-S20-KF-B | 556616 | DSL-16-...-270-CC-A-S20-KF-B | |
| 20 | 25 | 556621 | DSL-20-25-270-P-A-S20-KF-B | 556622 | DSL-20-25-270-CC-A-S20-KF-B | |
| | 40 | 556627 | DSL-20-40-270-P-A-S20-KF-B | 556628 | DSL-20-40-270-CC-A-S20-KF-B | |
| | 50 | 556633 | DSL-20-50-270-P-A-S20-KF-B | 556634 | DSL-20-50-270-CC-A-S20-KF-B | |
| | 80 | 556639 | DSL-20-80-270-P-A-S20-KF-B | 556640 | DSL-20-80-270-CC-A-S20-KF-B | |
| | 100 | 556645 | DSL-20-100-270-P-A-S20-KF-B | 556646 | DSL-20-100-270-CC-A-S20-KF-B | |
| | 10 ... 100* | 556651 | DSL-20-...-270-P-A-S20-KF-B | 556652 | DSL-20-...-270-CC-A-S20-KF-B | |
| 25 | 25 | 556657 | DSL-25-25-270-P-A-S20-KF-B | 556658 | DSL-25-25-270-CC-A-S20-KF-B | |
| | 40 | 556663 | DSL-25-40-270-P-A-S20-KF-B | 556664 | DSL-25-40-270-CC-A-S20-KF-B | |
| | 50 | 556669 | DSL-25-50-270-P-A-S20-KF-B | 556670 | DSL-25-50-270-CC-A-S20-KF-B | |
| | 80 | 556675 | DSL-25-80-270-P-A-S20-KF-B | 556676 | DSL-25-80-270-CC-A-S20-KF-B | |
| | 100 | 556681 | DSL-25-100-270-P-A-S20-KF-B | 556682 | DSL-25-100-270-CC-A-S20-KF-B | |
| | 10 ... 100* | 556687 | DSL-25-...-270-P-A-S20-KF-B | 556688 | DSL-25-...-270-CC-A-S20-KF-B | |
| 32 | 25 | 556693 | DSL-32-25-270-P-A-S20-KF-B | 556694 | DSL-32-25-270-CC-A-S20-KF-B | |
| | 40 | 556699 | DSL-32-40-270-P-A-S20-KF-B | 556700 | DSL-32-40-270-CC-A-S20-KF-B | |
| | 50 | 556705 | DSL-32-50-270-P-A-S20-KF-B | 556706 | DSL-32-50-270-CC-A-S20-KF-B | |
| | 80 | 556711 | DSL-32-80-270-P-A-S20-KF-B | 556712 | DSL-32-80-270-CC-A-S20-KF-B | |
| | 100 | 556717 | DSL-32-100-270-P-A-S20-KF-B | 556718 | DSL-32-100-270-CC-A-S20-KF-B | |
| | 10 ... 100* | 556723 | DSL-32-...-270-P-A-S20-KF-B | 556724 | DSL-32-...-270-CC-A-S20-KF-B | |
| 40 | 25 | 556729 | DSL-40-25-270-P-A-S20-KF-B | 556730 | DSL-40-25-270-CC-A-S20-KF-B | |
| | 40 | 556735 | DSL-40-40-270-P-A-S20-KF-B | 556736 | DSL-40-40-270-CC-A-S20-KF-B | |
| | 50 | 556741 | DSL-40-50-270-P-A-S20-KF-B | 556742 | DSL-40-50-270-CC-A-S20-KF-B | |
| | 80 | 556747 | DSL-40-80-270-P-A-S20-KF-B | 556748 | DSL-40-80-270-CC-A-S20-KF-B | |
| | 100 | 556753 | DSL-40-100-270-P-A-S20-KF-B | 556754 | DSL-40-100-270-CC-A-S20-KF-B | |
| | 125 | 556759 | DSL-40-125-270-P-A-S20-KF-B | 556760 | DSL-40-125-270-CC-A-S20-KF-B | |
| | 160 | 556765 | DSL-40-160-270-P-A-S20-KF-B | 556766 | DSL-40-160-270-CC-A-S20-KF-B | |
| | 10 ... 160* | 556771 | DSL-40-...-270-P-A-S20-KF-B | 556772 | DSL-40-...-270-CC-A-S20-KF-B | |

*) X-strokes

Accessories

Flange mounting FBN

Material:
Galvanised steel
Free of copper and PTFE



Dimensions and ordering data

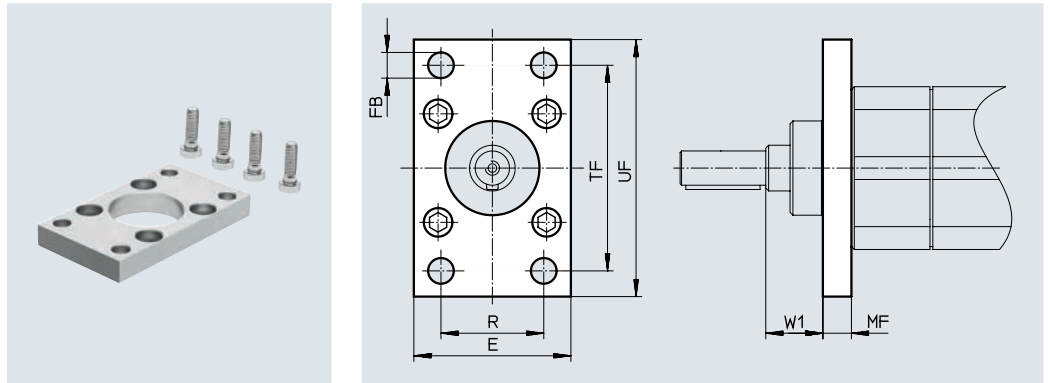
| For size | E | FB ∅ H13 | MF | TF | UF | W1 | CRC ¹⁾ | Weight [g] | Part no. | Type |
|----------|----|----------------|----|----|----|----|-------------------|---------------|----------|-----------|
| 16 | 40 | 6.6 | 5 | 50 | 66 | 23 | 1 | 52 | 5131 | FBN-20/25 |

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

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

Flange mounting FNC

Material:
Galvanised steel
Free of copper and PTFE



Dimensions and ordering data

| For size | E | FB ∅ H13 | MF | R | TF | UF | W1 | CRC ¹⁾ | Weight [g] | Part no. | Type |
|----------|----|----------------|----|----|-----|-----|----|-------------------|---------------|----------|--------|
| 20 | 45 | 7 | 10 | 32 | 64 | 80 | 16 | 1 | 221 | 174376 | FNC-32 |
| 25 | 54 | 9 | 10 | 36 | 72 | 90 | 20 | 1 | 291 | 174377 | FNC-40 |
| 32 | 65 | 9 | 12 | 45 | 90 | 110 | 25 | 1 | 536 | 174378 | FNC-50 |
| 40 | 75 | 9 | 12 | 50 | 100 | 120 | 34 | 1 | 679 | 174379 | FNC-63 |

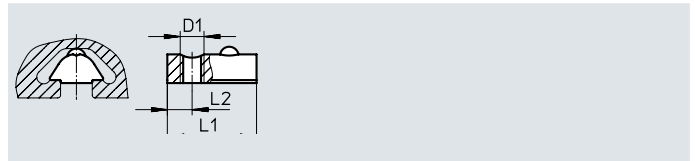
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

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

Accessories

Slot nut NST

Material:
Non-alloyed tempered steel
Free of copper and PTFE



| Dimensions and ordering data | | | | | | | |
|------------------------------|----|---------|------|-------------------|------------|----------|----------|
| For size | D1 | L1 | L2 | CRC ¹⁾ | Weight [g] | Part no. | Type |
| 16 | M5 | 12 ±0.5 | 4 | 2 | 3 | 150914 | NST-5-M5 |
| 20 | | | | | | | |
| 25 | M6 | 22.5 | 6.25 | 2 | 11 | 150915 | NST-8-M6 |
| 32 | | | | | | | |
| 40 | | | | | | | |

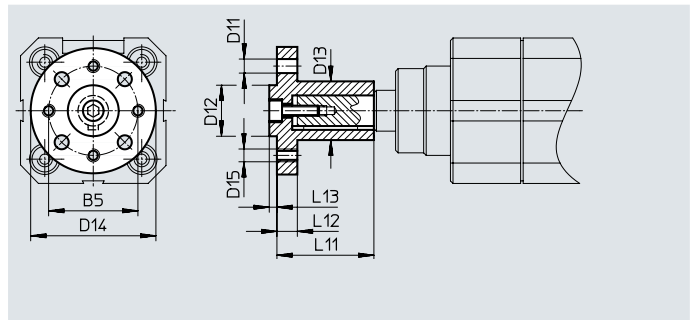
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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.

Push-on flange FWSR

The permissible tightening torque must not be exceeded when attaching additional components to the spigot shaft.

Material:
Anodised wrought aluminium alloy
Free of copper and PTFE



| Dimensions and ordering data | | | | | | | | | | | | | | |
|------------------------------|----|-----------------|----------------|----------|----------|-----|-----|-----|-----|------------------------|-------------------|------------|----------|------------|
| For size | B5 | D11 ∅ H13 | D12 ∅ f8 | D13 ∅ | D14 ∅ | D15 | L11 | L12 | L13 | Tightening torque [Nm] | CRC ¹⁾ | Weight [g] | Part no. | Type |
| 16 | 25 | 3.4 | 14 | 15 | 35 | M3 | 25 | 3 | 3 | 1.2 | 2 | 21 | 14659 | FWSR-12 |
| 20 | 28 | 4.5 | 16 | 17 | 40 | M4 | 28 | 5 | 6 | 5.5 | 2 | 32 | 170153 | FWSR-16-M5 |
| 25 | 35 | 5.5 | 20 | 23 | 50 | M5 | 38 | 8 | 3 | 5.5 | 2 | 70 | 170154 | FWSR-25-M5 |
| 32 | 45 | 6.6 | 28 | 28 | 60 | M6 | 48 | 10 | 4 | 5.5 | 2 | 127 | 13241 | FWSR-32 |
| 40 | 54 | 9 | 36 | 38 | 70 | M8 | 60 | 11 | 5 | 10 | 2 | 240 | 14656 | FWSR-40 |

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

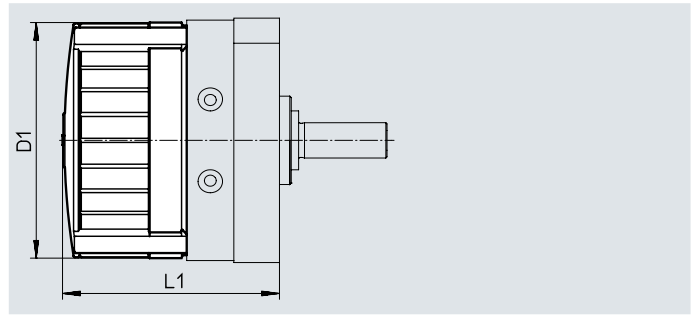
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Accessories

Cover cap AKM

Material:
Polyamide

Cannot be used in combination with
inductive proximity switch SIEN.



Dimensions and ordering data

| For size | D1 ∅ | L1 | Part no. | Type |
|----------|---------|-----------|----------|--------|
| 16 | 59 | 56.2±1.2 | 549194 | AKM-12 |
| 20 | 70 | 68±1.2 | 549195 | AKM-16 |
| 25 | 83 | 73.4±1.2 | 549196 | AKM-25 |
| 32 | 105 | 89.7±1.5 | 549197 | AKM-32 |
| 40 | 130 | 107.1±1.5 | 549198 | AKM-40 |

Ordering data – Cushioning kits

| | For size | Comment | Part no. | Type |
|--|----------|--------------------------------|----------|---------------|
| | 16 | For cushioning mount DSM-...-B | 550657 | DSM-12-P-B |
| | 20, 25 | | 550658 | DSM-16/25-P-B |
| | 32 | | 550659 | DSM-32-P-B |
| | 40 | | 550660 | DSM-40-P-B |

Ordering data – Shock absorbers

Data sheets → Internet: dycs

| | For size | Comment | Part no. | Type |
|--|----------|--------------------------------|----------|----------------|
| | 16 | For cushioning mount DSM-...-B | 548011 | DYSC-5-5-Y1F |
| | 20, 25 | | 548012 | DYSC-7-5-Y1F |
| | 32 | | 548013 | DYSC-8-8-Y1F |
| | 40 | | 548014 | DYSC-12-12-Y1F |

Ordering data – Cushioning mounts



| | For size | Comment | Part no. | Type |
|--|----------|--|----------|----------|
| | 16 | <ul style="list-style-type: none"> For elastic cushioning components For shock absorbers | 547900 | DSM-12-B |
| | 20 | | 547901 | DSM-16-B |
| | 25 | | 547902 | DSM-25-B |
| | 32 | | 547903 | DSM-32-B |
| | 40 | | 547904 | DSM-40-B |

Ordering data – One-way flow control valves

Data sheets → Internet: grla

| | Connection | | Material | Part no. | Type |
|--|------------|-----------------|--------------|----------|-----------------|
| | Thread | For tubing O.D. | | | |
| | M5 | 3 | Metal design | 193137 | GRLA-M5-QS-3-D |
| | | 4 | | 193138 | GRLA-M5-QS-4-D |
| | | 6 | | 193139 | GRLA-M5-QS-6-D |
| | G1/8 | 3 | | 193142 | GRLA-1/8-QS-3-D |
| | | 4 | | 193143 | GRLA-1/8-QS-4-D |
| | | 6 | | 193144 | GRLA-1/8-QS-6-D |
| | | 8 | | 193145 | GRLA-1/8-QS-8-D |

Accessories

| Ordering data – Sensor brackets | | | | | |
|---|--------------------|--|----------|---------------|------------------|
| | For size | Comment | Part no. | Type | PE ¹⁾ |
|  | 16, 20, 25, 32, 40 | For proximity switches SME-/SMT-10 | 550661 | SL-DSM-B | 2 |
|  | 16, 20, 25, 32, 40 | For inductive proximity switches SIEN-M5 | 1130882 | SL-DSM-S-M5-B | 2 |
| | | For inductive proximity switches SIEN-M8 | 1132360 | SL-DSM-S-M8-B | |


1) Packaging unit

Proximity switches for swivel motion

for size 16, 25, 32, 40 (not suitable for size 20)

Ordering data – Proximity switches for C-slot, magneto-resistive


Data sheets → Internet: smt

| | Type of mounting | Switching output | Electrical connection, outlet direction of connection | Cable length [m] | Part no. | Type |
|---|--|------------------|---|------------------|----------|----------------------------|
| N/O contact | | | | | | |
|  | Is clamped to the DSL-B using the sensor bracket | 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 |

For size 16 ... 40


Ordering data – Proximity switches for C-slot, magnetic reed

Data sheets → Internet: sme

| | Type of mounting | Switching output | Electrical connection, outlet direction of connection | Cable length [m] | Part no. | Type |
|---|--|------------------|---|------------------|----------|----------------------------|
| N/O contact | | | | | | |
|  | Is clamped to the DSL-B using the sensor bracket | 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 |

Ordering data – Proximity switches, inductive

Data sheets → Internet: sien



| | Thread | Contact | Connection | Part no. | Type |
|---|--------|-------------|--------------|----------|-----------------|
|  | M5 | N/O contact | Cable, 2.5 m | 150370 | SIEN-M5B-PS-K-L |
| | | | Plug | 150371 | SIEN-M5B-PS-S-L |
| | M8 | N/O contact | Cable, 2.5 m | 150386 | SIEN-M8B-PS-K-L |
| | | | Plug | 150387 | SIEN-M8B-PS-S-L |

Proximity switches for linear motion

For size 16 ... 40

Ordering data – Proximity switches for T-slot, magneto-resistive

Data sheets → Internet: smt

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




Accessories

Proximity switches for linear motion

For size 16 ... 40



Ordering data – Proximity switches for T-slot, magnetic reed

Data sheets → Internet: sme


| | Type of mounting | Switching output | Electrical connection | Cable length [m] | Part no. | Type |
|--|--|------------------|-----------------------|------------------|----------|-------------------------|
| N/O contact | | | | | | |
|  | Inserted in the slot from above, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 543862 | SME-8M-DS-24V-K-2.5-OE |
| | | | | 5.0 | 543863 | SME-8M-DS-24V-K-5.0-OE |
| | | | Cable, 2-wire | 2.5 | 543872 | SME-8M-ZS-24V-K-2.5-OE |
| | | | Plug M8x1, 3-pin | 0.3 | 543861 | SME-8M-DS-24V-K-0.3-M8D |
|  | Inserted in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 2.5 | 150855 | SME-8-K-LED-24 |
| | | | Plug M8x1, 3-pin | 0.3 | 150857 | SME-8-S-LED-24 |
| N/C | | | | | | |
|  | Inserted in the slot lengthwise, flush with the cylinder profile | Contacting | Cable, 3-wire | 7.5 | 160251 | SME-8-O-K-LED-24 |

Ordering data – Connecting cables

Data sheets → Internet: nebu

| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part no. | Type |
|--|-------------------------------|------------------------------|------------------|----------|----------------------|
|  | Straight socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541333 | NEBU-M8G3-K-2.5-LE3 |
| | | | 5 | 541334 | NEBU-M8G3-K-5-LE3 |
| | Straight socket, M12x1, 5-pin | Cable, open end, 3-wire | 2.5 | 541363 | NEBU-M12G5-K-2.5-LE3 |
| | | | 5 | 541364 | NEBU-M12G5-K-5-LE3 |
|  | Angled socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541338 | NEBU-M8W3-K-2.5-LE3 |
| | | | 5 | 541341 | NEBU-M8W3-K-5-LE3 |
| | Angled socket, M12x1, 5-pin | Cable, open end, 3-wire | 2.5 | 541367 | NEBU-M12W5-K-2.5-LE3 |
| | | | 5 | 541370 | NEBU-M12W5-K-5-LE3 |

Ordering data – Slot covers for T-slot

| | For ø | Application | Mounting | Length [m] | Part no. | Type |
|--|-----------|-------------------|------------|------------|----------|---------|
|  | 16 ... 40 | For sensor slots | Insertable | 2x 0.5 | 151680 | ABP-5-S |
| | 16, 20 | For profile slots | Insertable | 2x 0.5 | 151681 | ABP-5 |
| | 25 ... 40 | | | | 151682 | ABP-8 |

Accessories

Adapter kit
HAPB, HAVB

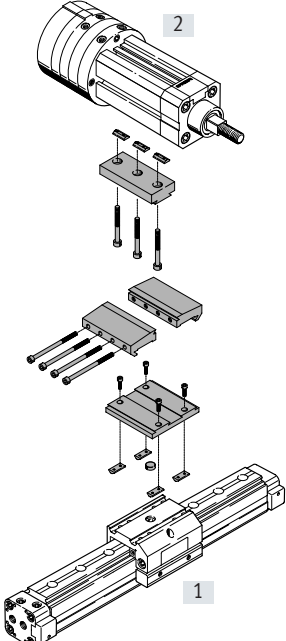
Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

 **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 | [2] Drive | Adapter kit | | | |
|--|------------------|------------|-------------------|----------|---------|---------|
| | Size | Size | CRC ¹⁾ | Part no. | Type | |
| DGPL, DGE/DSL | DG... | DSL | HAPB, HAVB | | | |
|  | 25 | 16, 20 | 2 | 163214 | HAPB-15 | |
| | | | | | 163244 | HAVB-8 |
| | | | | | 163202 | HAPB-3 |
| | 25 | 25 | | | 163215 | HAPB-16 |
| | | | | | 163244 | HAVB-8 |
| | 32 ²⁾ | 20 | | | 163202 | HAPB-3 |
| | | | | | 163214 | HAPB-15 |
| | | | | | 163244 | HAVB-8 |
| | 32 ²⁾ | 25, 32 | | | 163203 | HAPB-4 |
| | | | | | 163215 | HAPB-16 |
| 40 | 25, 32 | | 163244 | HAVB-8 | | |
| | | | 163203 | HAPB-4 | | |
| | | | 163215 | HAPB-16 | | |
| | | | 163244 | HAVB-5 | | |
| | | | 163204 | HAPB-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) For DGPL only

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