

Mini slide DGST



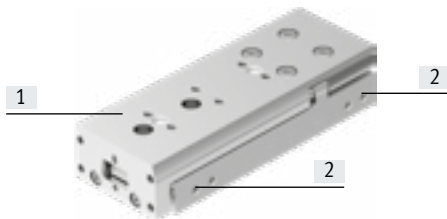
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Worldwide:	Quickest delivery – wherever, whenever	The Core Range offers you the best value for your automation tasks.	
Simply good:	Expected high Festo quality		
Fast:	Easy and fast to select		

Key features

At a glance

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

The technology in detail



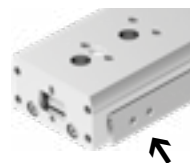
[1] Slide and yoke plate



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

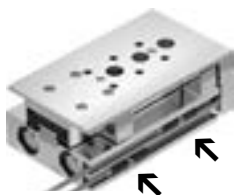


[2] Supply ports



- All connections on one side

[3] Sensor slots for sensing the slide position



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

[4] Cushioning and precision end-position adjustment



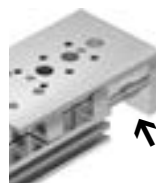
- Cushioning types:
 - Elastic cushioning rings/plates at both ends (P)
 - Elastomer cushioning, adjustable at both ends, with fixed stop (P1)
 - Elastomer cushioning, short, at both ends (E)
 - Elastomer cushioning, at both ends, stroke not adjustable (E1)
 - Shock absorber, self-adjusting, linear,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

[5] Twin-piston drive



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

[6] Backlash-free piston rod/yoke connection



- Enhanced precision
- Longer service life

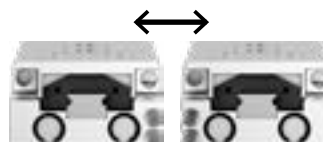
Version

[L] Mirror-imaged



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

Mounting example

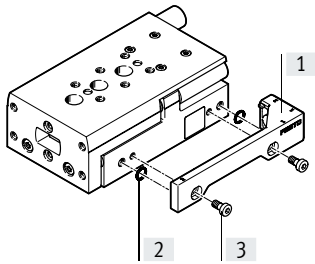


- Space-saving mounting of mini-slides next to one another

Key features

Axial supply ports via connection kit

→ Page 50

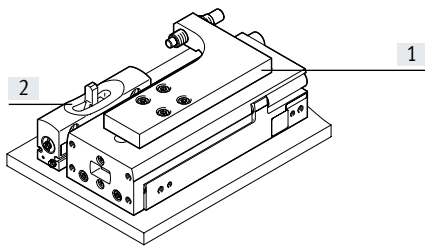


- The connection kit enables having axial supply ports
- Particularly suitable for applications in which no space is available at the side for supply ports

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

Intermediate-position module

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

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

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

For manufacturing lithium-ion batteries

DGST-...-F1A

Recommended for production plants for manufacturing lithium-ion batteries. Metals with copper, zinc or nickel as the main constituent are excluded from use. Exceptions are nickel in steels, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.

Accessories

Your Festo contact partner can provide information about which accessories are suitable for manufacturing lithium-ion batteries.

Application areas

Mainly in industry segments such as:

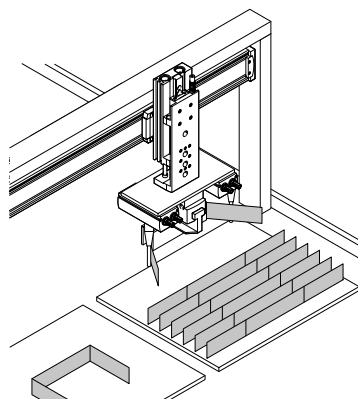
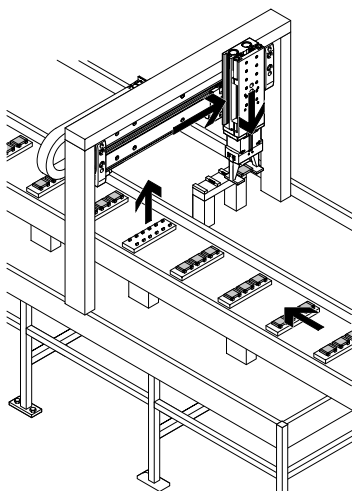
- Electronics and assembly technology
- Machine building
- Handling technology

Examples include the following:

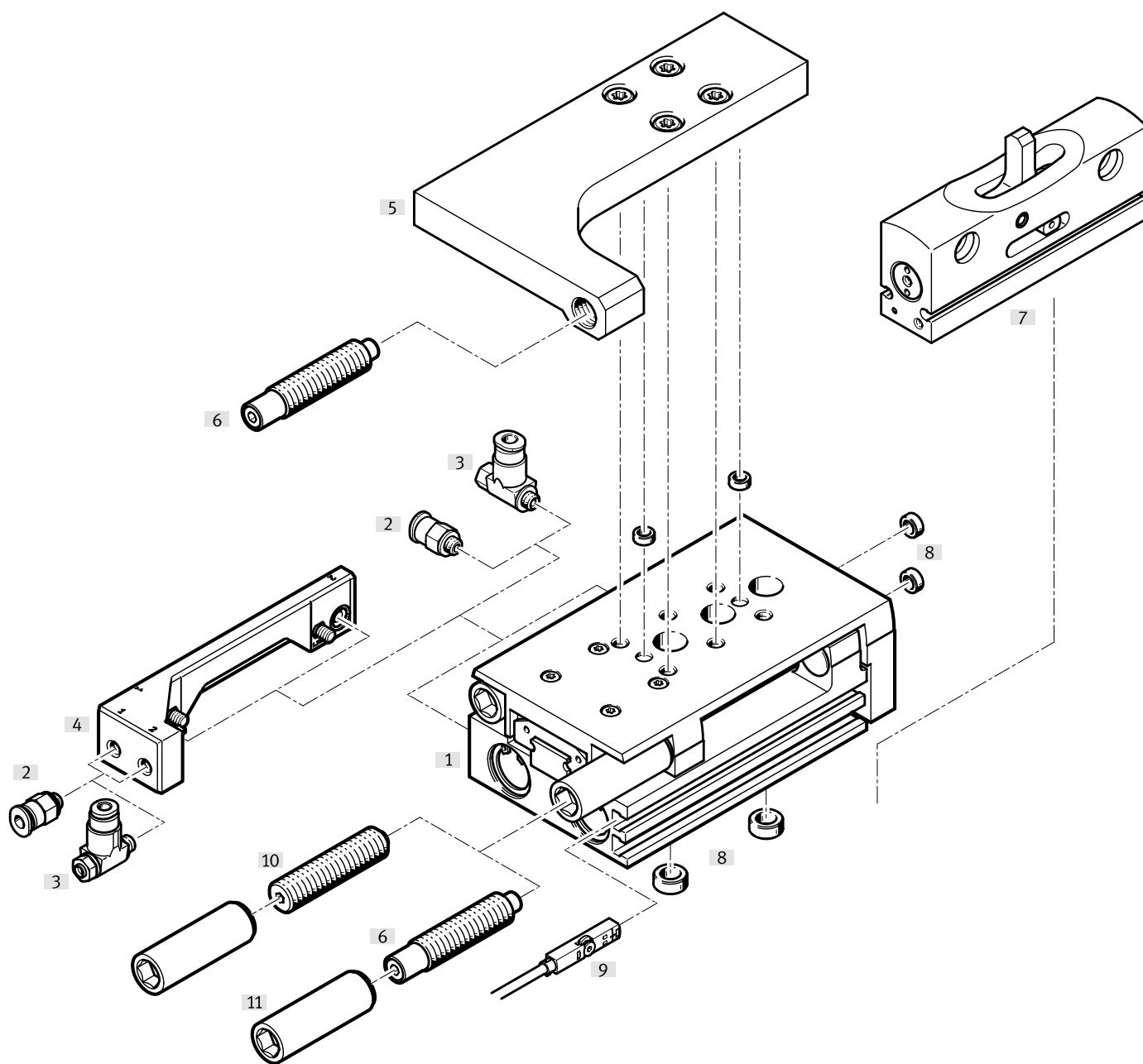
- Pick & place handling units
- Piggyback handling units
- Precise positioning
- Precise press-fitting

Application examples

Pick & Place handling unit



Peripherals overview



Peripherals overview

Accessories		Description	→ Page/Internet
[1]	Mini slide DGST	Compact design	7
[2]	Push-in fitting QSM	For connecting tubing with standard O.D.	56
[3]	One-way flow control valve GRLA	For regulating velocity	56
[4]	Connection set DADG-AK-G8	For axial connection of compressed air tubing	50
[5]	Shock absorber retainer DADP	• Attachment for the shock absorber • For positioning and cushioning the intermediate position	54
[6]	Cushioning Y12	Shock absorber, self-adjusting, linear, at both ends, external	55
[7]	Intermediate-position module DADM	With stop lever for the intermediate position	52
[8]	Centring sleeve ZBH	• For centring loads and attachments • (Centring sleeves not included in the scope of delivery of the mini slide)	56
[9]	Proximity switches SMT-10/-8	For position sensing Can be integrated in the sensor slot, so it does not protrude	57
	Position transmitters SMAT-8M, SDAT	• Analogue position feedback possible • Choice of analogue output: 0 ... 10 V, 0 ... 20 mA	58
[10]	Cushioning P	Elastic cushioning rings/plates at both ends	55
	Cushioning P1	Elastomer cushioning, adjustable at both ends, with fixed stop	55
	Cushioning E	Elastomer cushioning, short, at both ends	55
[11]	Threaded sleeve	• For mounting the cushioning components • Included in the scope of delivery for cushioning [6]/[8]	56

Type codes

001	Series	
DGST	Slide drive	

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

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

004	Version	
	Standard	
L	Mirror-inverted	

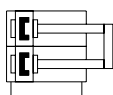
005	Cushioning	
P	Elastic cushioning rings/plates on both sides	
P1	Elastomer cushioning, adjustable on both sides, with fixed stop	
E	Elastomer cushioning, short, on both sides	
E1	Elastomer cushioning, double-sided, stroke not adjustable	
Y12	Shock absorber, self-adjusting, linear at both ends, external	

006	Position sensing	
A	For proximity sensor	

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

008	Lubrication	
	Standard	
H1	Food-safe lubrication	

Datasheet



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



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

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

2) Advanced end position/retracted end position

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

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

1) For sizes 6/8/10/12, the min. operating pressure can increase slightly after a rest period > 24 h.

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

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

Datasheet

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

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

Permissible impact velocity:

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

Maximum permissible mass:

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

- v Permissible impact velocity
 E Maximum impact energy
 m₁ Moving mass (drive)
 m₂ Moving payload

**Note**

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

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

Permissible impact velocity:

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

Maximum permissible mass:

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

- v Permissible impact velocity
 E Kinetic impact energy
 F Cylinder force minus friction force
 m₁ Moving mass (drive)
 m₂ Moving payload
 g Gravitational acceleration
 s Shock absorber stroke
 α Impact angle
 v Impact velocity

**Note**

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

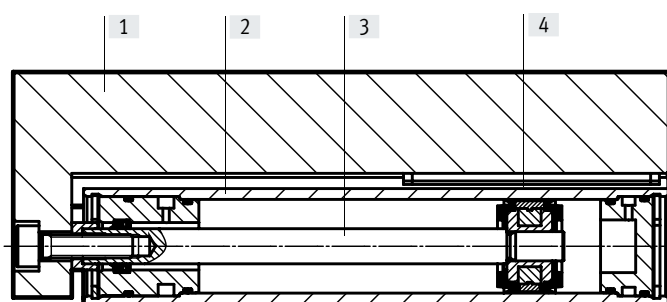
Datasheet

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

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

Materials

Sectional view

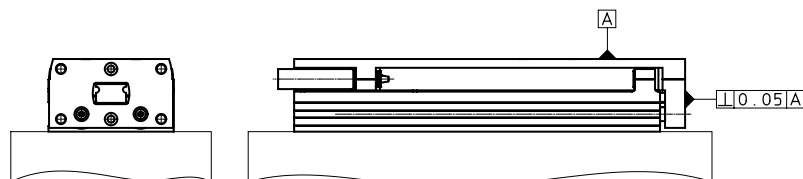


Mini slide	
[1] Slide	Anodised wrought aluminium alloy
[2] Housing	Anodised wrought aluminium alloy
[3] Piston rod	High-alloy stainless steel
[4] Guide	High-alloy stainless steel, POM, TPE
– Seals	HNBR
Note on materials	RoHS-compliant
DGST...-F1A	Metals with copper, zinc or nickel as the main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.

Datasheet

Perpendicularity

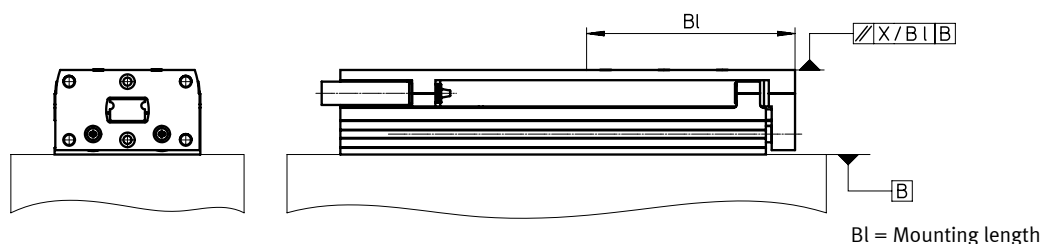
The term perpendicularity refers to the alignment accuracy between the slide surface and the yoke plate.



Size	6	8	10	12	16	20	25
	≤ 0.05						

Parallelism

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



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

1) Parallelism/mounting length

Linearity

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



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

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

Datasheet

Adjustable end-position range

Precision adjustment of the advanced and retracted end positions

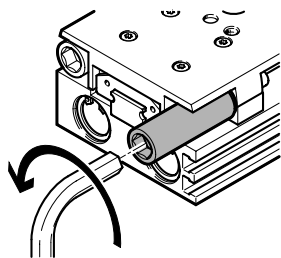
The required stroke reduction can be precisely adjusted with the cushioning components.

Advantages:

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

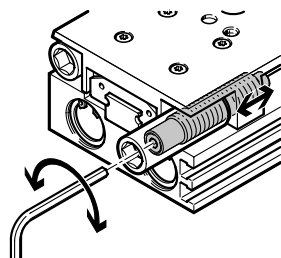
Step 1:

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



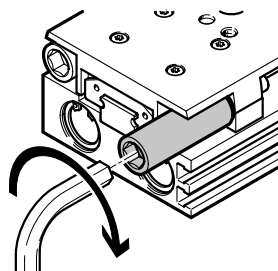
Step 2:

Set the exact end position using a smaller hex wrench



Step 3:

Secure the cushioning component by tightening the sleeve



End-position adjustment

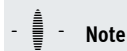
Dimensions:

For DGST-...-P: → page 38

For DGST-...-P1 → page 40

For DGST-...-E → page 42

For DGST-...-Y12: → page 44



Note

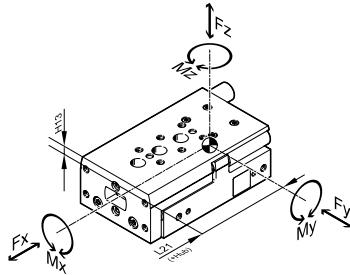
Adjust and secure the shock absorber under pressure.

Datasheet

Dynamic 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 cushioning phase.



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

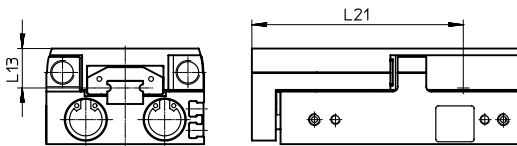
$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

f_v = load comparison factor

F_1 = dynamic value

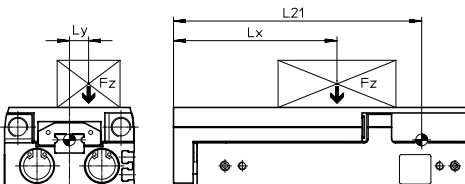
F_2 = maximum value

Position of the guide centre



Calculation example

Assuming:



Mini slide = DGST-10

Lever arm L_x = 0.05 m

Lever arm L_y = 0.03 m

Mass F_z = 0.8 kg

Acceleration a = 0 m/s²

Sought:

F_y, F_z, M_x, M_y, M_z

and

Verification of operation with combined load

Solution:

$L_{21} = 0.1102$ m from table

$F_y = 0$ N

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

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

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

$M_z = 0$ Nm

Combined load:

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

$$= 0 + \frac{7,848 \text{ N}}{520 \text{ N}} + \frac{0,236 \text{ Nm}}{6 \text{ Nm}} + \frac{1,1 \text{ Nm}}{5 \text{ Nm}} + 0 = 0,274 \leq 1$$

Permissible forces and torques					Geometric characteristics	
Size	Stroke [mm]	F _y _{max} , F _z _{max} [N]	M _x _{max} [Nm]	M _y _{max} , M _z _{max} [Nm]	L13 [mm]	L21 [mm]
6						
	10	200	1.1	0.7	9.35	31
	20	220	1.1	1		39.5
	30	240	1.1	1.2		51
	40	260	1.2	1.2		59.5
	50	280	1.4	1.2		73.5
8						
	10	250	2	2	10.75	31
	20	275	2	2		39.5
	30	300	2.8	2		51
	40	325	3	2.5		59.5
	50	350	3.2	3		73.5
	80	375	3.2	3		103.5

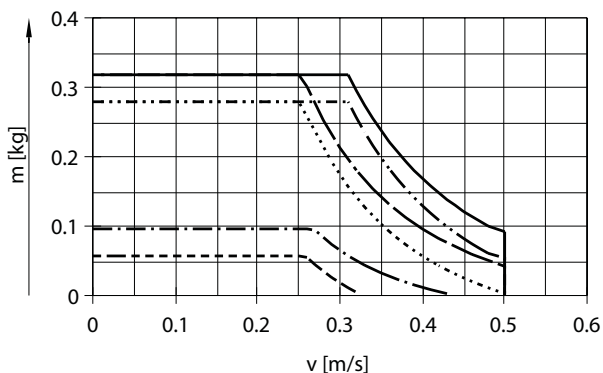
Datasheet

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

Datasheet

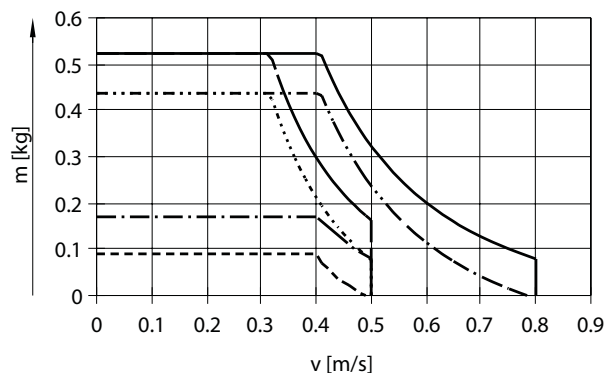
Payload m as a function of impact velocity v and cushioning P/P1/E/E1

DGST-6



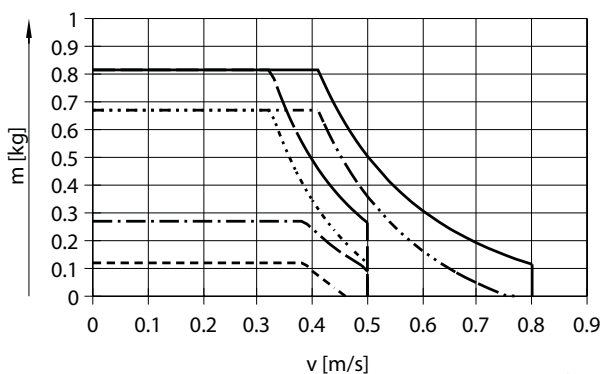
- DGST-6-10-E/-P
- DGST-6-50-E/-P
- DGST-6-10-E1
- DGST-6-50-E1
- .-.- DGST-6-10-P1
- DGST-6-50-P1

DGST-8



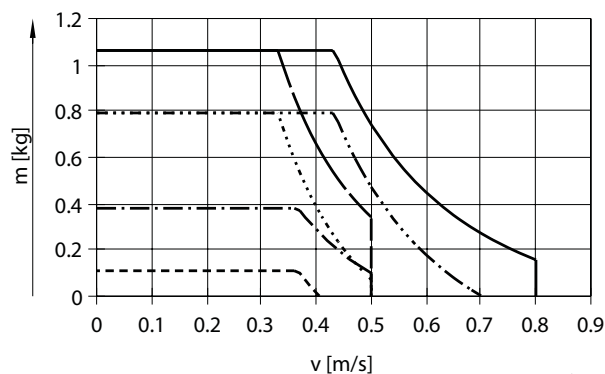
- DGST-8-10-E/-P
- DGST-8-80-E/-P
- DGST-8-10-E1
- DGST-8-80-E1
- .-.- DGST-8-10-P1
- DGST-8-80-P1

DGST-10



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

DGST-12

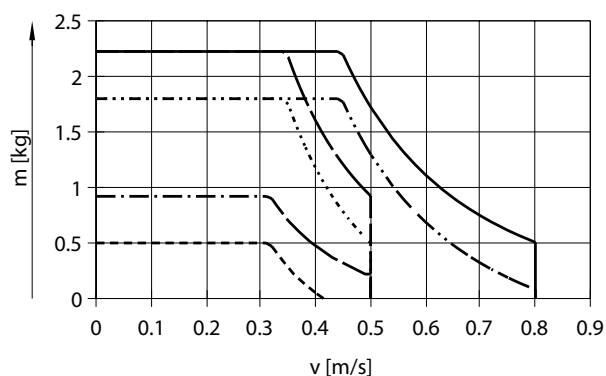


- DGST-12-10-E/-P
- DGST-12-100-E/-P
- DGST-12-10-E1
- DGST-12-100-E1
- .-.- DGST-12-10-P1
- DGST-12-100-P1

Datasheet

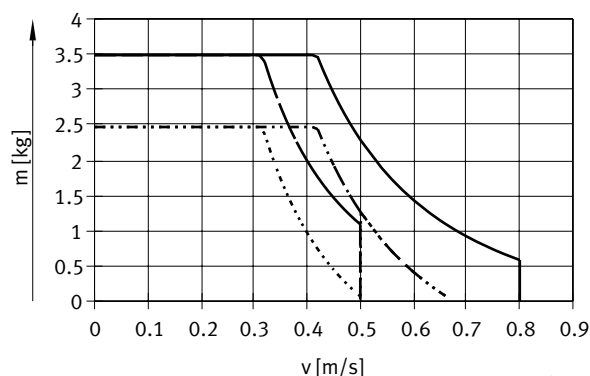
Payload m as a function of impact velocity v and cushioning P/P1/E/E1

DGST-16



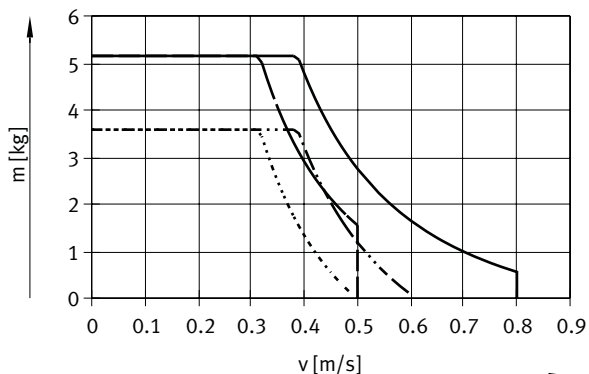
- DGST-16-10-E/-P
- DGST-16-150-E/-P
- DGST-16-10-E1
- DGST-16-150-E1
- . - . - DGST-16-10-P1
- DGST-16-150-P1

DGST-20



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

DGST-25

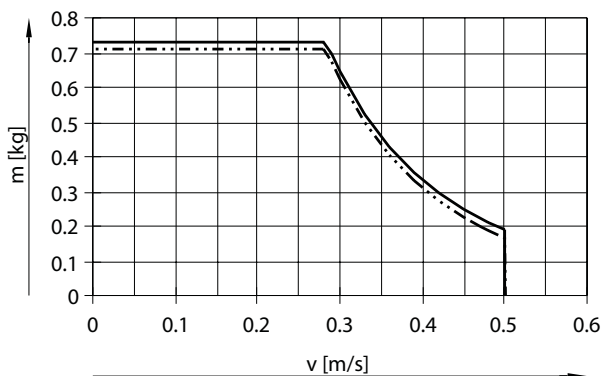


- DGST-25-10-E/-P
- DGST-25-200-E/-P
- DGST-25-10-E1
- DGST-25-200-E1

Datasheet

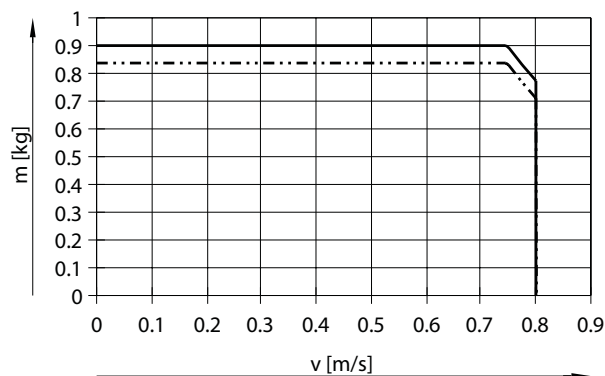
Payload m as a function of impact velocity v and cushioning Y12

DGST-6



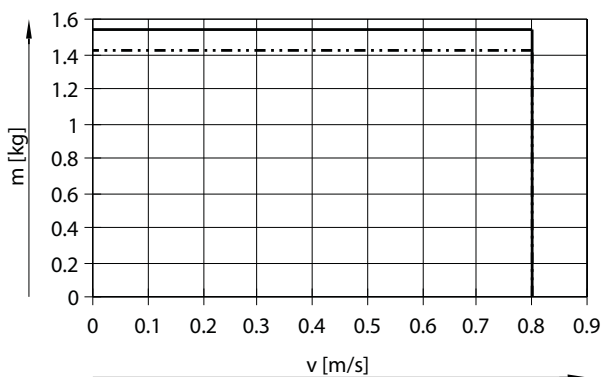
— DGST-6-30-Y12
 - - - DGST-6-50-Y12

DGST-8



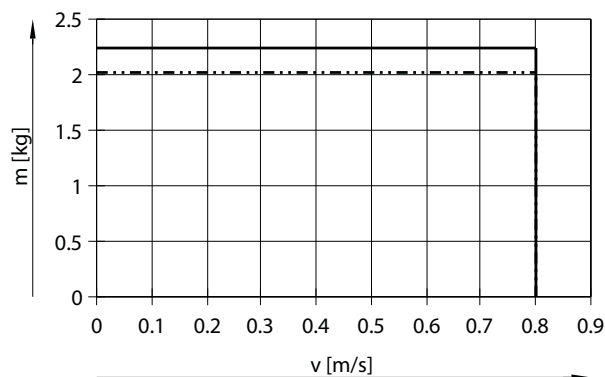
— DGST-8-30-Y12
 - - - DGST-8-80-Y12

DGST-10



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

DGST-12

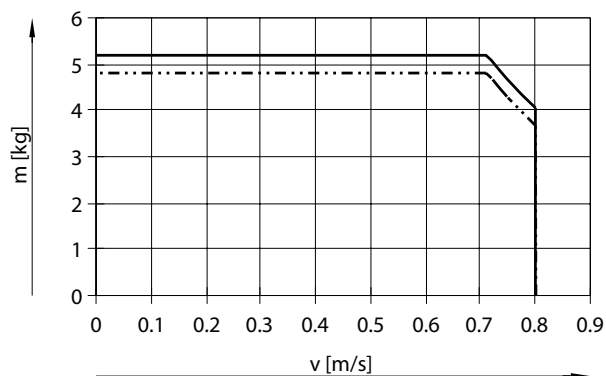


— DGST-12-30-Y12
 - - - DGST-12-100-Y12

Datasheet

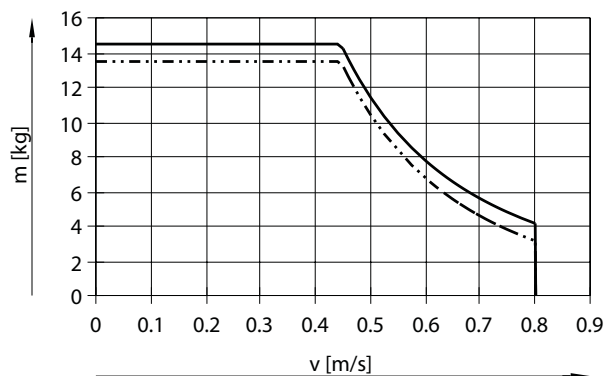
Payload m as a function of impact velocity v and cushioning Y12

DGST-16



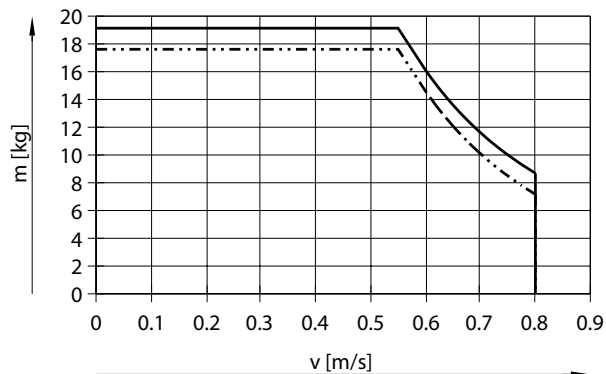
— DGST-16-30-Y12
 - · - · - DGST-16-150-Y12

DGST-20



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

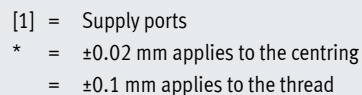
DGST-25



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

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[] Standard



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

Datasheet

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

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

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

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

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

3) Max. screw-in depth

Datasheet

Dimensions

Download CAD data → www.festo.com

[L] Mirror-imaged

Technical drawings of the Mini slide DGST in mirror-imaged configuration. The drawings include a side view showing length L1, a top view showing dimensions T4, G2, EE, T5, and a callout [1] for supply ports, and a front view showing dimensions L8, L7, L10, L9, H7, and callouts [1] for supply ports. A detail view on the left shows the internal mechanism with dimensions T11, H5, and H4.

+ = plus stroke length

[1] Supply ports

Note

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

All further dimensions are identical to the standard version → [page 18](#)

Datasheet

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

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

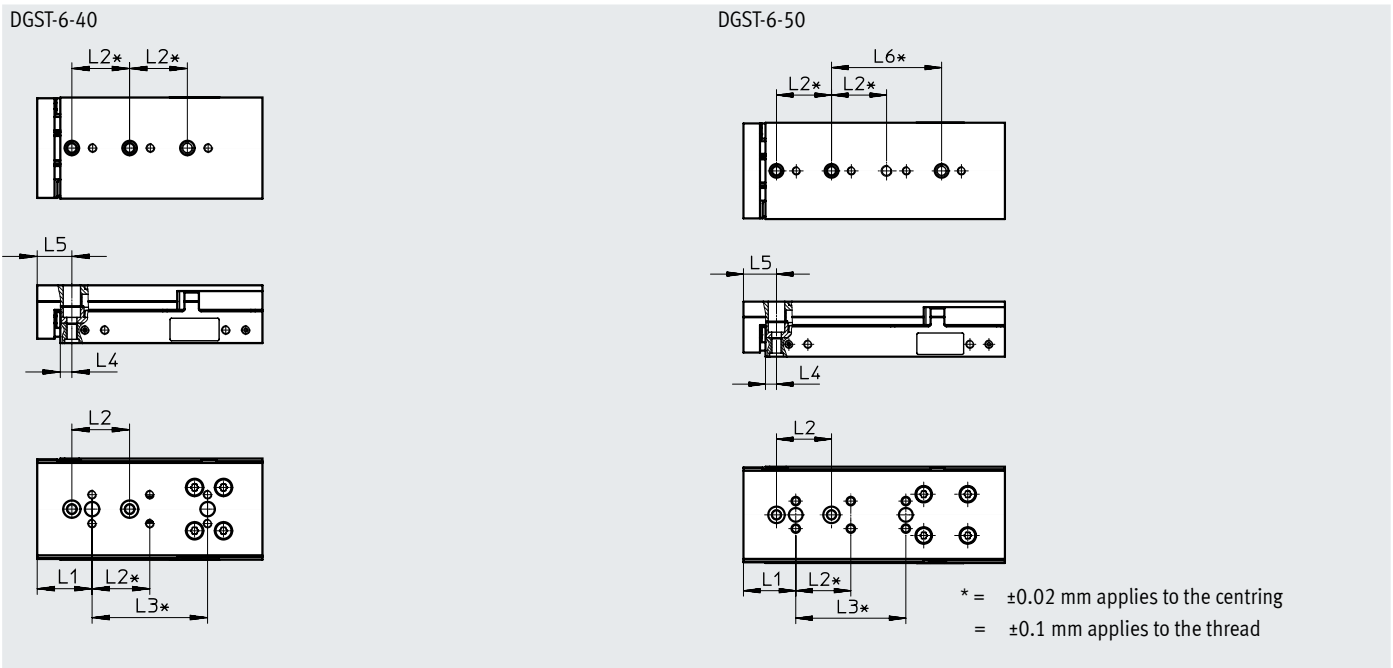
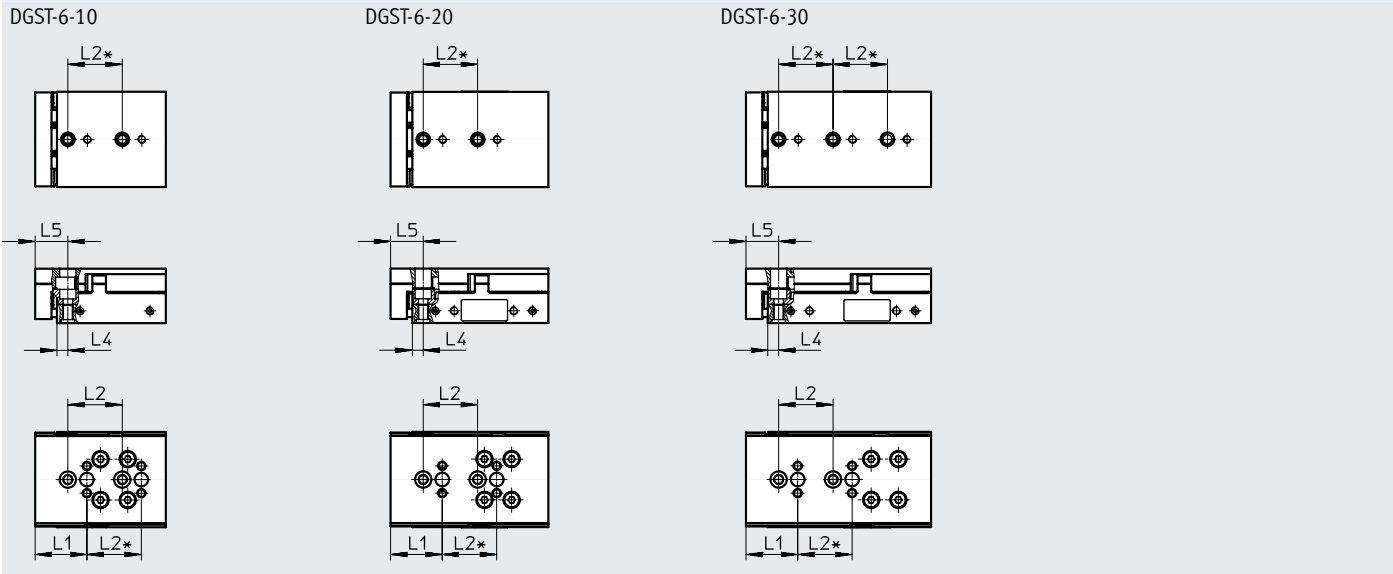
1) At an operating pressure of 6 bar

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

3) Max. screw-in depth

Datasheet

Hole pattern for mounting threads and centring holes Download CAD data → www.festo.com



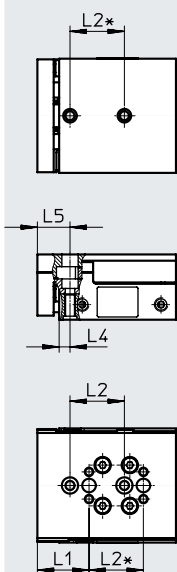
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6
6	10	19	20	–	4	12	–
	20			–			–
	30			–			–
	40			40			–
	50			40			40

Datasheet

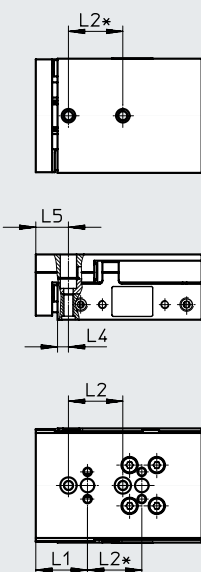
Hole pattern for mounting threads and centring holes

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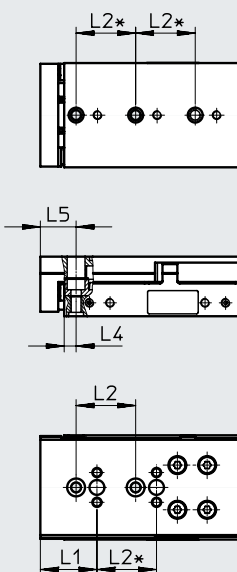
DGST-8-10



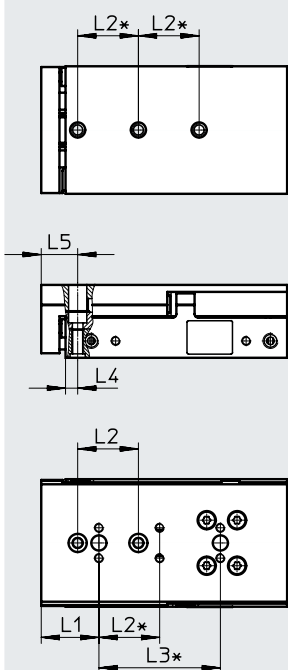
DGST-8-20



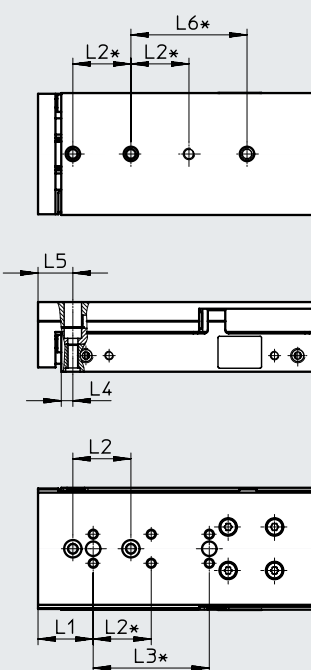
DGST-8-30



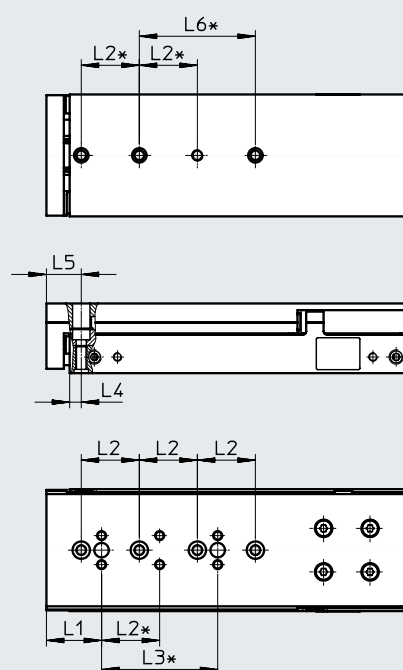
DGST-8-40



DGST-8-50



DGST-8-80



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

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

Datasheet

Hole pattern for mounting threads and centring holes

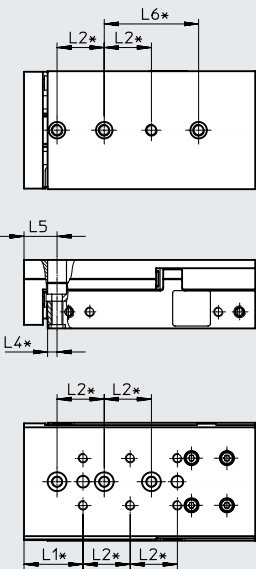
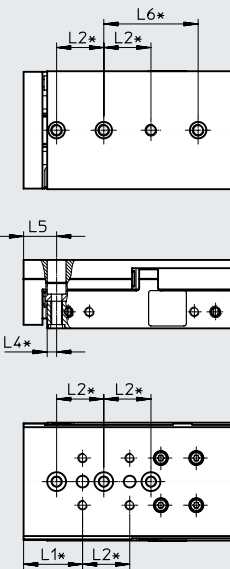
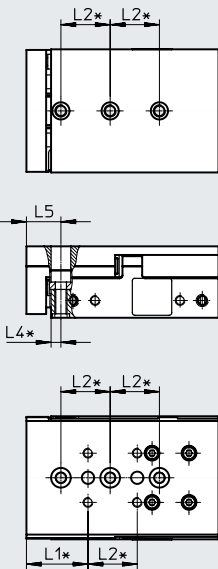
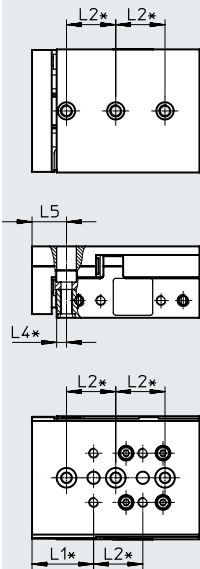
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DGST-10-10/20

DGST-10-30

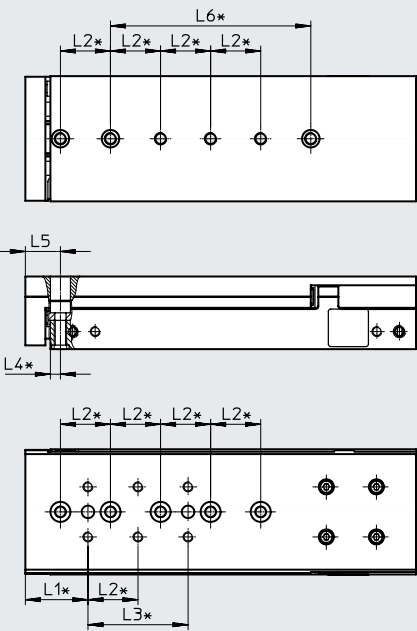
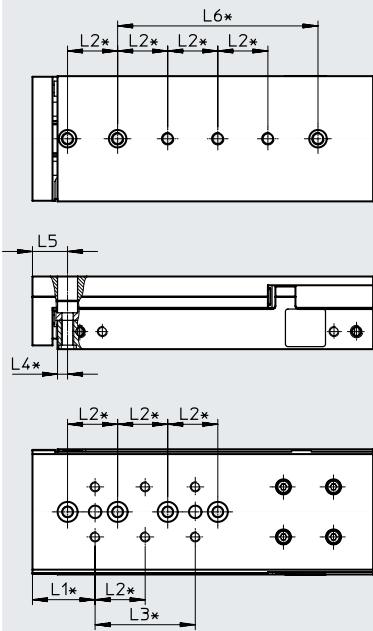
DGST-10-40

DGST-10-50



DGST-10-80

DGST-10-100



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

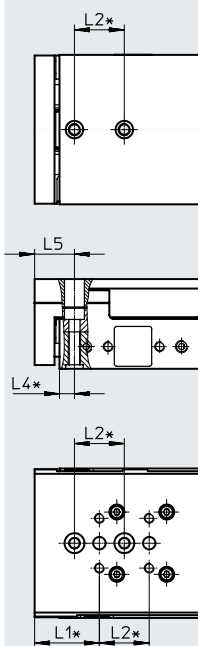
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6
10	10, 20	25	20	–	4	14	–
	30			–			–
	40, 50			–			40
	80			40			80
	100			40			80

Datasheet

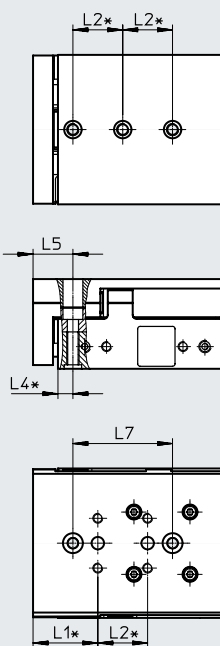
Hole pattern for mounting threads and centring holes

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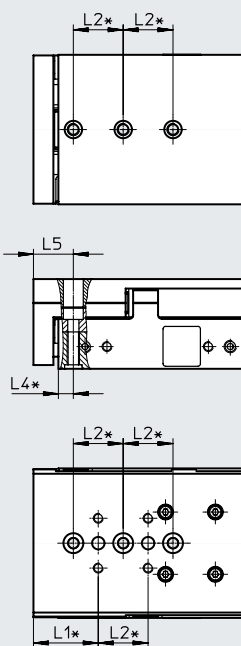
DGST-12-10



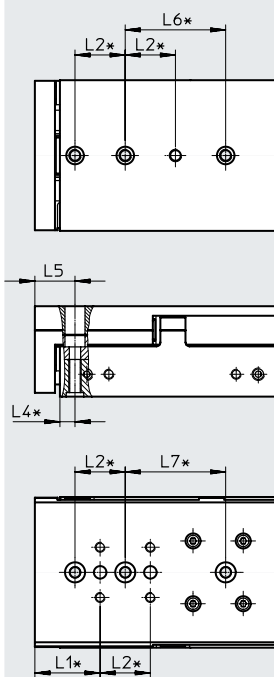
DGST-12-20



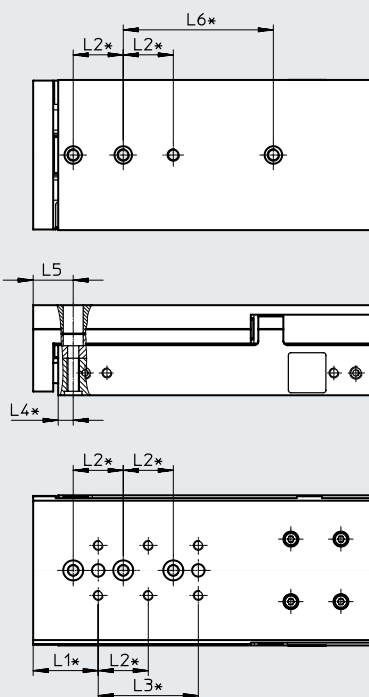
DGST-12-30



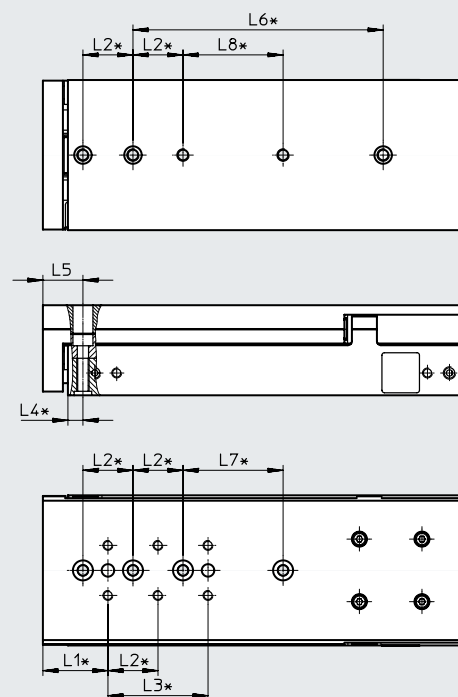
DGST-12-40



DGST-12-50/80



DGST-12-100

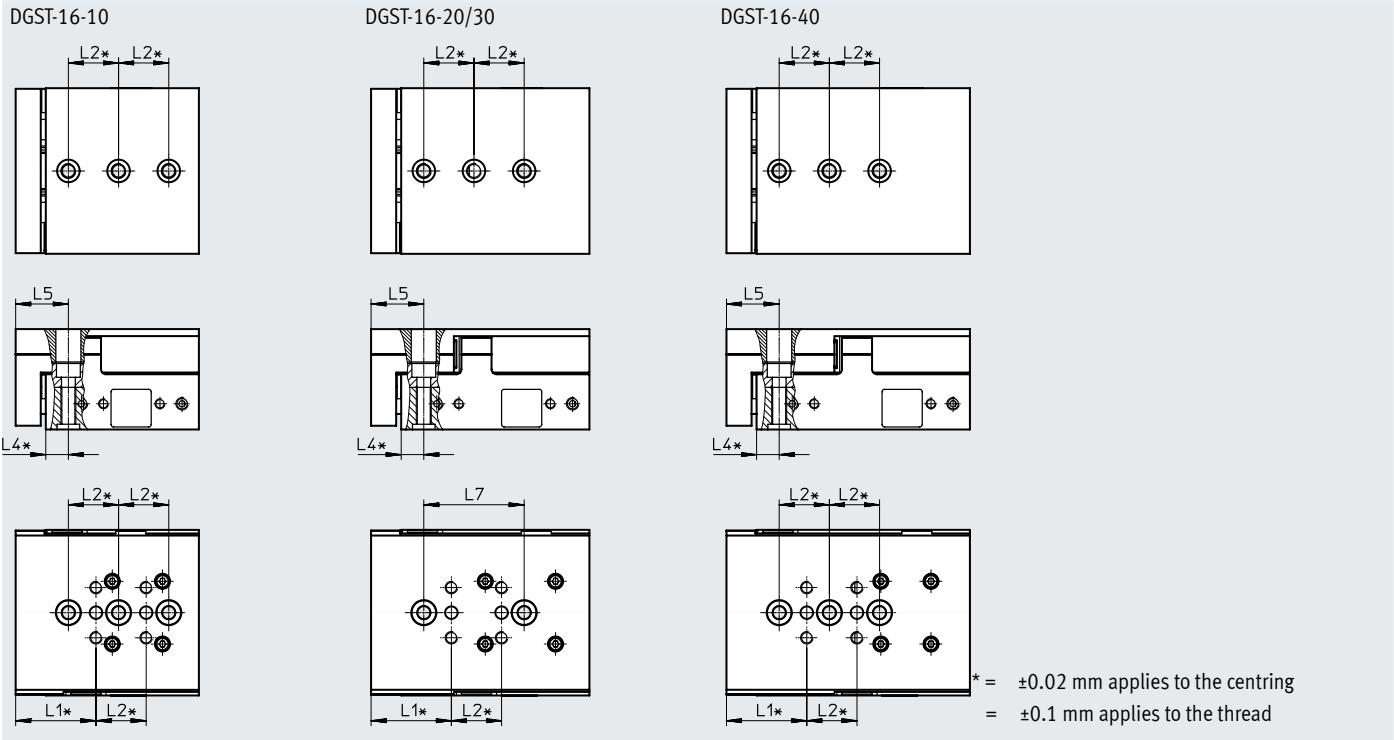


* = ± 0.02 mm applies to the centring
 = ± 0.1 mm applies to the thread

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

Datasheet

Hole pattern for mounting threads and centring holes Download CAD data → www.festo.com



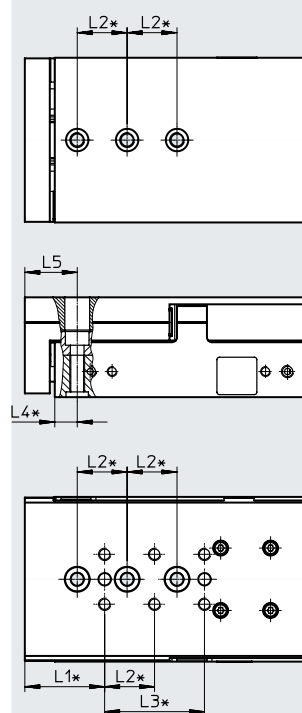
Size	Stroke [mm]	L1	L2	L4	L5	L7
16	10	32	20	9	21	–
	20					40
	30					40
	40					–

Datasheet

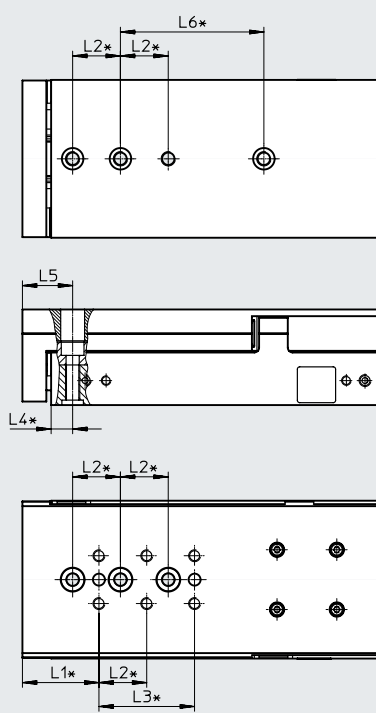
Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

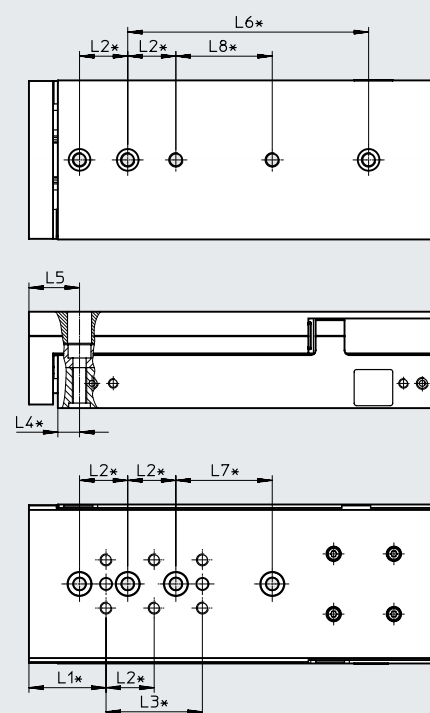
DGST-16-50



DGST-16-80



DGST-16-100

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

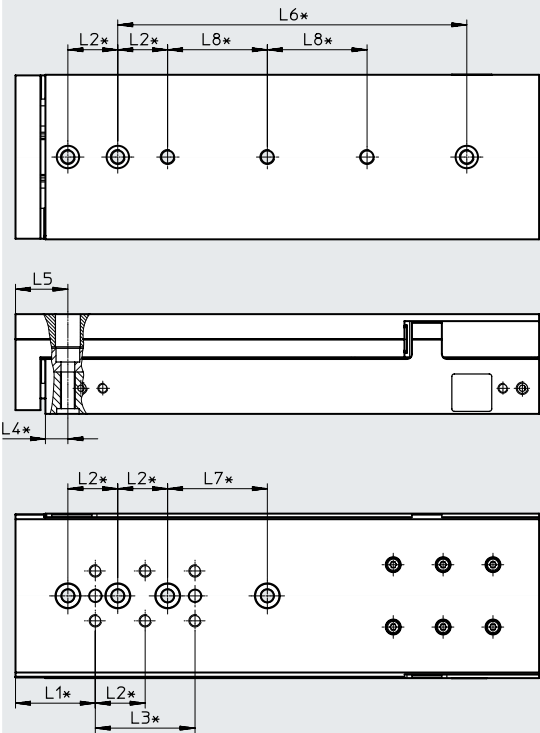
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
16	50	32	20	40	9	21	–	–	–
	80						60	–	–
	100						100	40	40

Datasheet

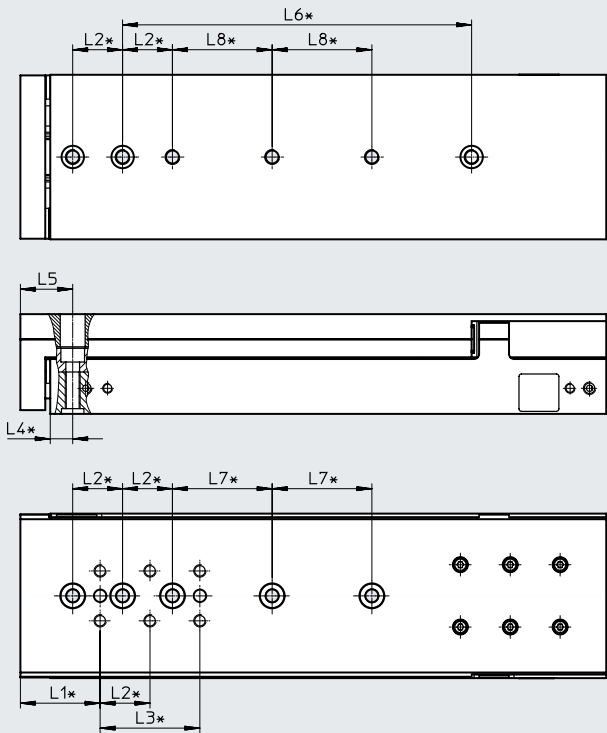
Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-16-125



DGST-16-150



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

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

Datasheet

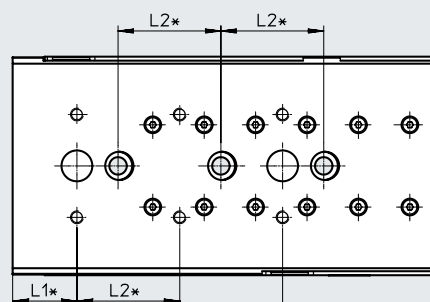
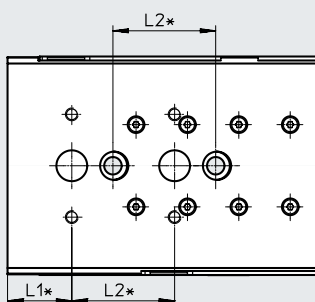
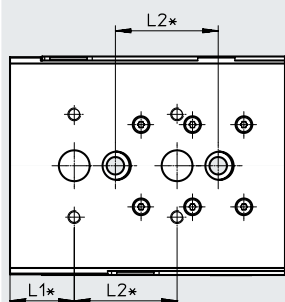
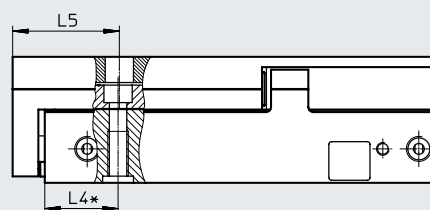
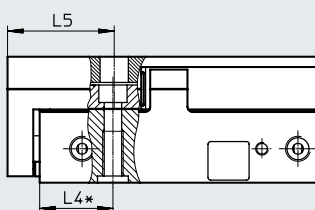
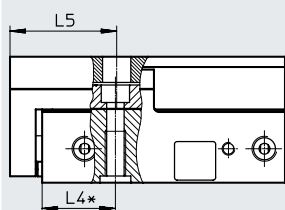
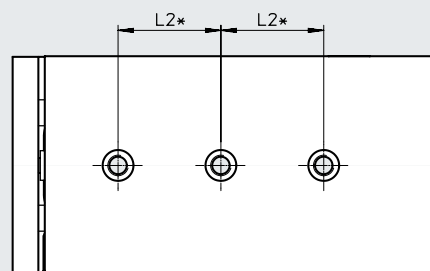
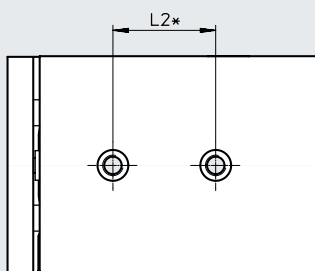
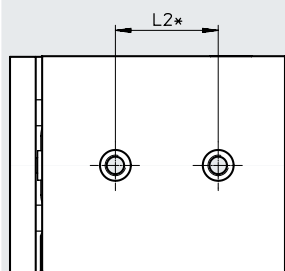
Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-20-10/20/30/40

DGST-20-50

DGST-20-80



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

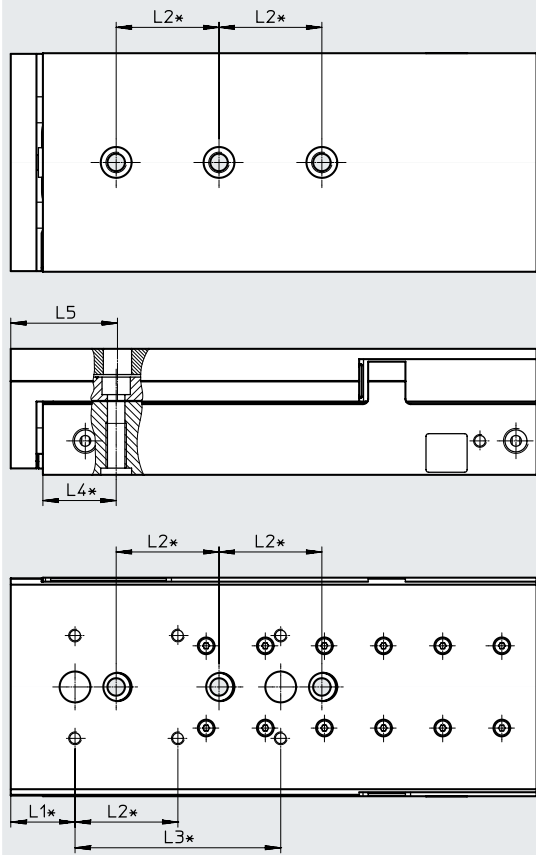
Size	Stroke [mm]	L1	L2	L3	L4	L5
20	10	25	40	–	28.5	41.5
	20			–		
	30			–		
	40			–		
	50			–		
	80			80		

Datasheet

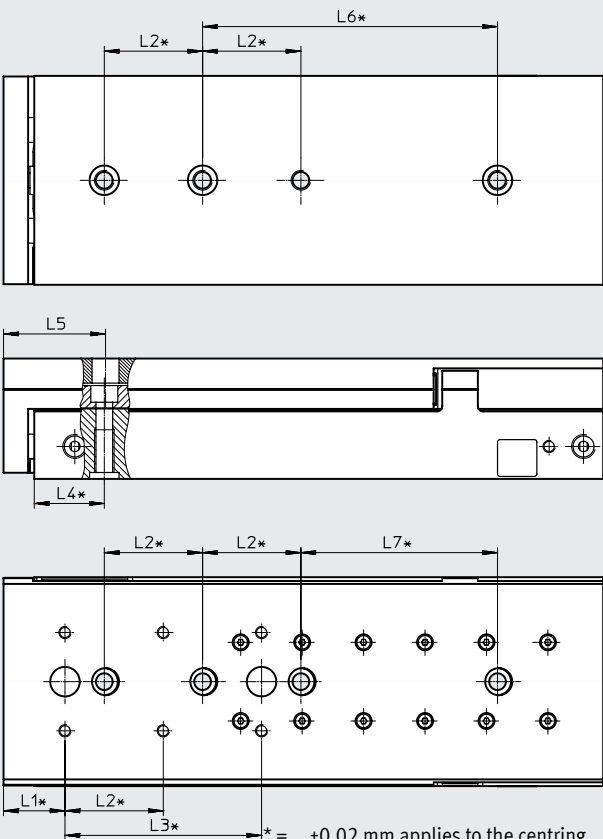
Hole pattern for mounting threads and centring holes

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DGST-20-100



DGST-20-125



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

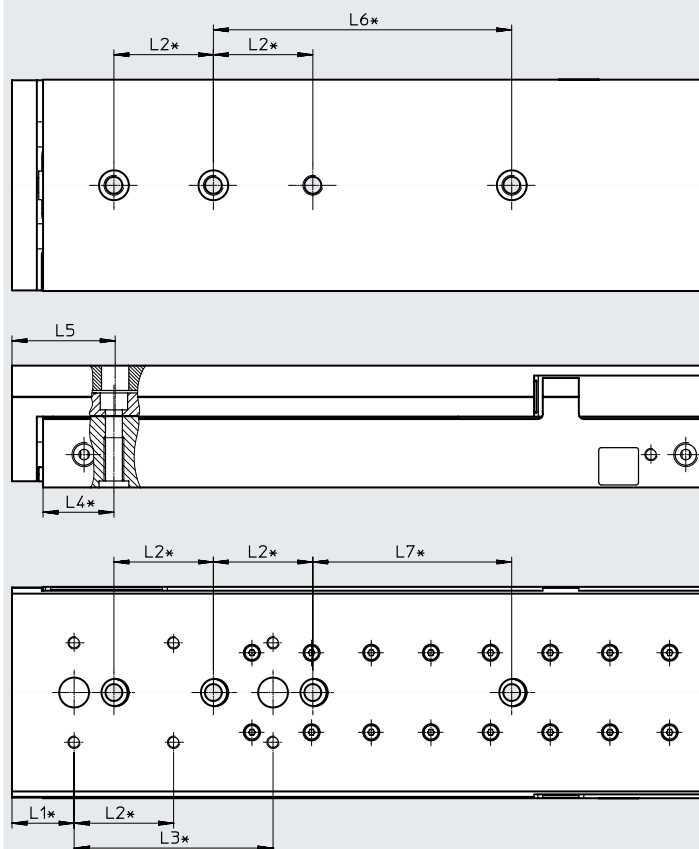
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
20	100	25	40	80	28.5	41.5	–	80
	125						120	

Datasheet

Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-20-150



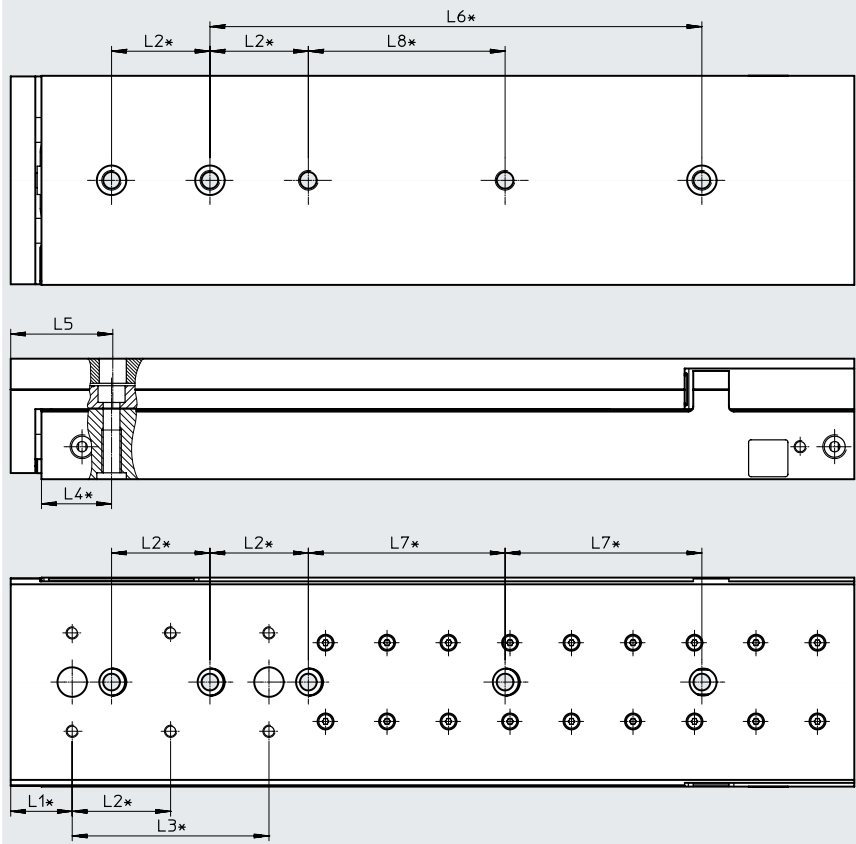
* = ± 0.02 mm applies to the centring
 = ± 0.1 mm applies to the thread

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

Datasheet

Hole pattern for mounting threads and centring holes
DGST-20-200

Download CAD data → www.festo.com



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

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

Datasheet

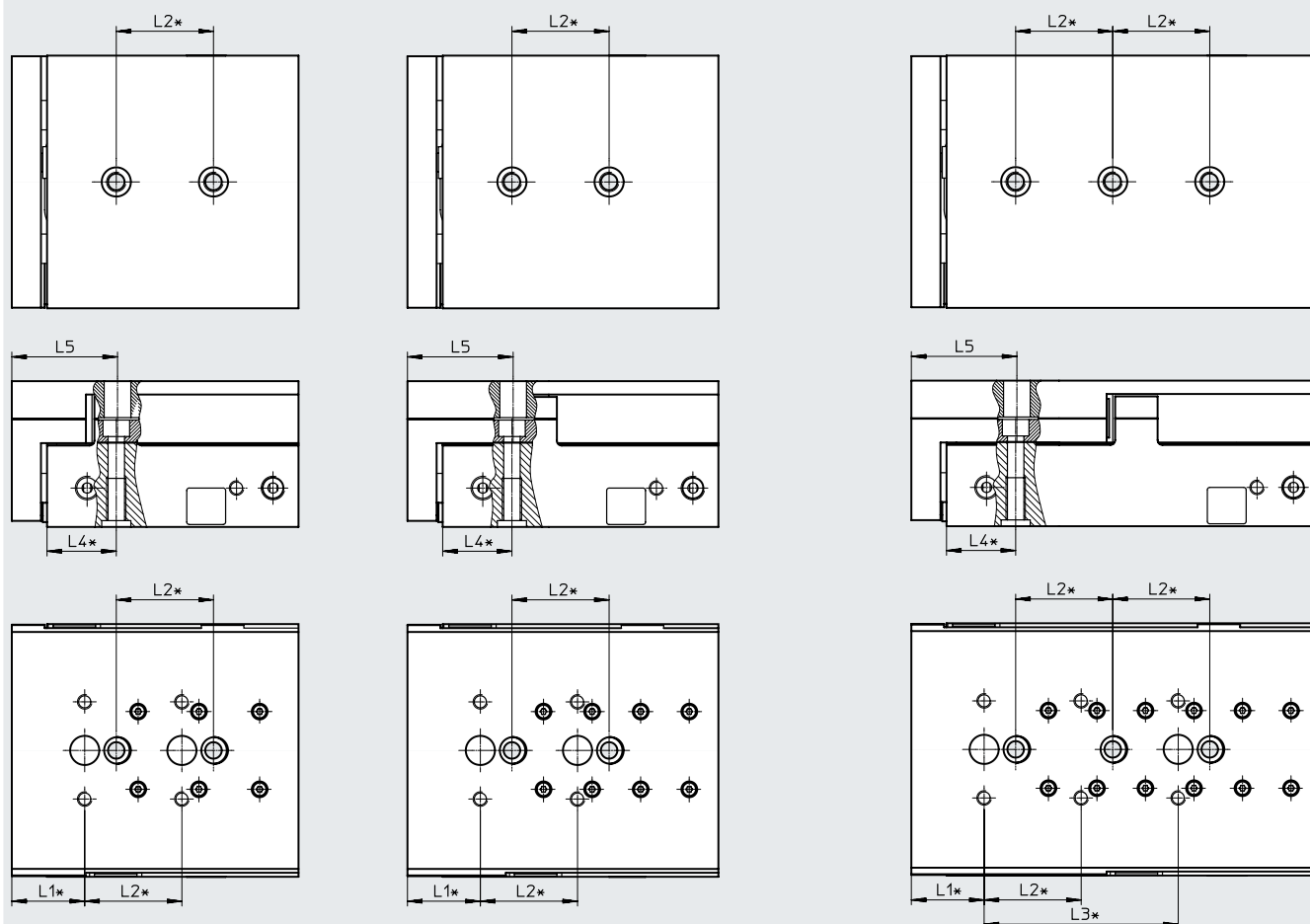
Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-25-10/20/30/40

DGST-25-50

DGST-25-80



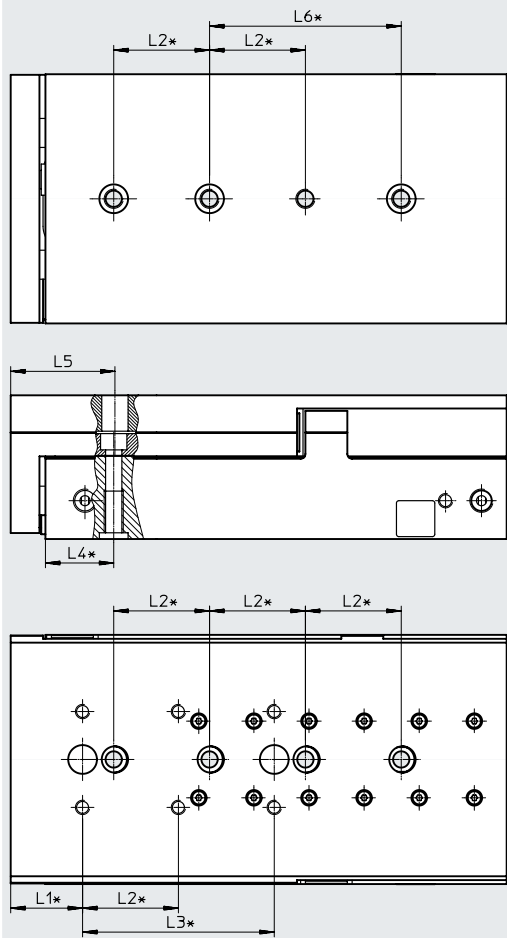
* = ± 0.02 mm applies to the centring
 = ± 0.1 mm applies to the thread

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

Datasheet

Hole pattern for mounting threads and centring holes
DGST-25-100

Download CAD data → www.festo.com



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

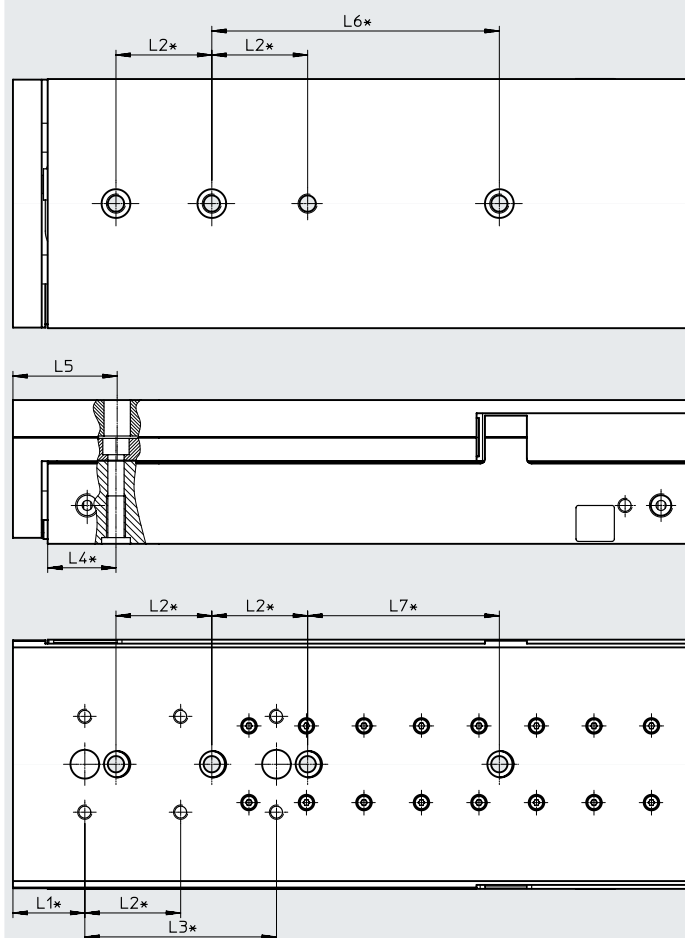
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
25	100	30	40	80	28.5	43.5	80	80

Datasheet

Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-25-125



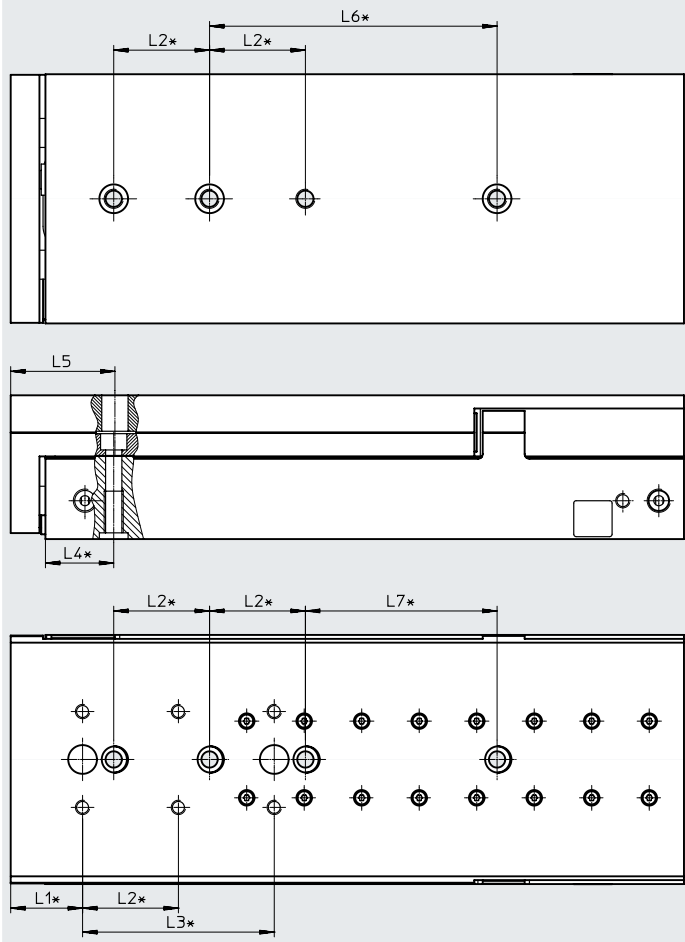
* = ± 0.02 mm applies to the centring
 = ± 0.1 mm applies to the thread

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

Datasheet

Hole pattern for mounting threads and centring holes Download CAD data → www.festo.com

DGST-25-150



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

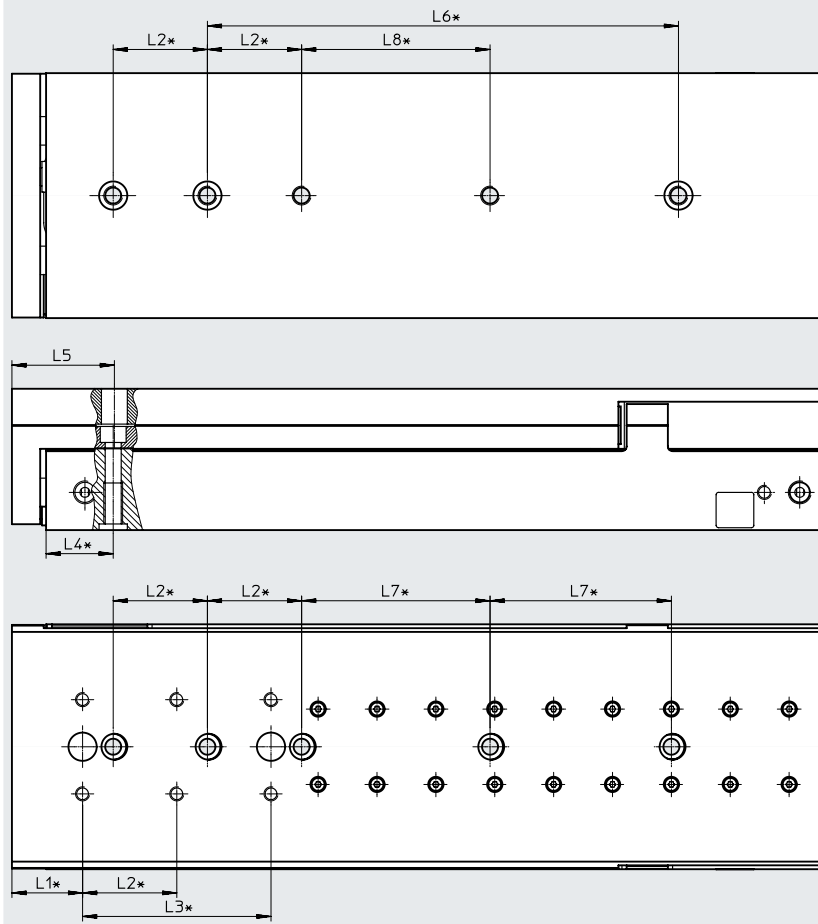
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
25	150	30	40	80	28.5	43.5	120	80

Datasheet

Hole pattern for mounting threads and centring holes

Download CAD data → www.festo.com

DGST-25-200



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

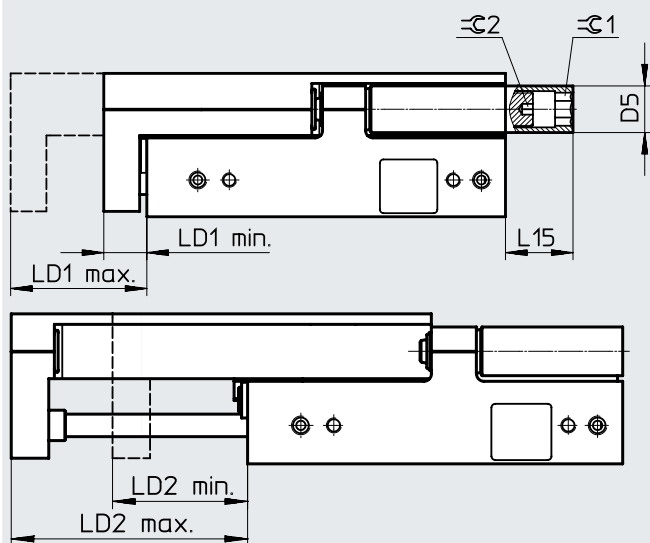
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
25	200	30	40	80	28.5	43.5	200	80	80

Datasheet

Dimensions

Download CAD data → www.festo.com

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



 **Note**

Adjust and secure the cushioning components under pressure.

Size	Stroke	D5 ∅	Retracted end position LD1			Advanced end position LD2			L15	≧ 1	≧ 2
	[mm]		Setting range	min.	max.	Setting range	max.	min.			
6	10	6	10.4	8.6	19	10.4	19	8.6	6	3	1.5
	20		11.6		20.2	13.1	29	15.9			
	30						39	25.9			
	40						49	35.9			
	50						59	45.9	0		
8	10	7	10	9.1	19.1	10	19.1	9.1	14.8	4	1.5
	20		14.4		23.5	16.3	29.1	12.8			
	30						39.1	22.8			
	40						49.1	32.8			
	50						59.1	42.8	10.8		
	80						89.1	72.8	9.8		
10	10	8	10	11.1	21.1	10	21.1	11.1	6.4	5	2
	20		15.1		26.2	16.7	31.1	14.4	13.9		
	30						41.1	24.4			
	40						51.1	34.4			
	50						61.1	44.4			
	80						91.1	74.4	5.9		
	100						111.1	94.4			
12	10	10	10.1	10.9	21	10.1	21	10.9	15.4	6	2.5
	20		20.1		31	20.1	31	10.9			
	30		20.8		31.7	22.1	41	18.9			
	40						51	28.9			
	50						61	38.9			
	80						91	68.9			
	100						111	88.9			

Datasheet

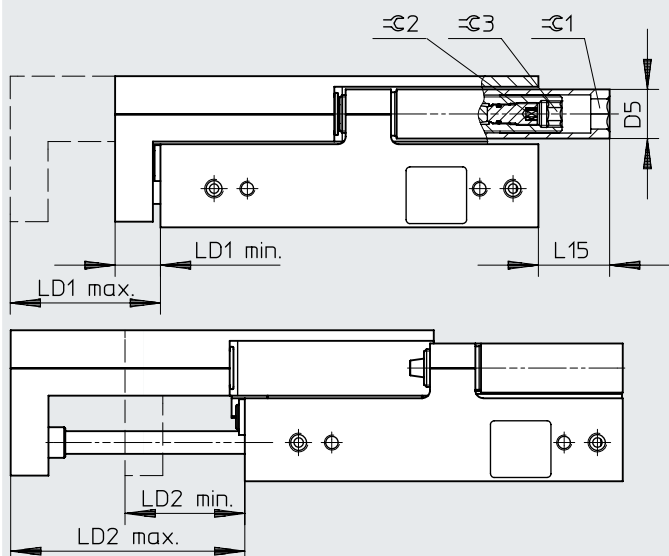
Size	Stroke	D5 ø	Retracted end position LD1			Advanced end position LD2			L15	≈ 1	≈ 2
	[mm]		Setting range	min.	max.	Setting range	max.	min.			
16	10	13	10.3	12.7	23	10.3	23	12.7	17.85	8	3
	20		20.3		33	20.3	33	12.7	20.85		
	30		21.5		34.2	22.8	43	20.2	23.85		
	40						53	30.2			
	50						63	40.2	18.85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

Datasheet

Dimensions

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



 **Note**

Adjust and secure the cushioning components under pressure.

Size	Stroke [mm]	D5 ø	Retracted end position LD1			Advanced end position LD2			L15	C1	C2	C3
			Setting range	min.	max.	Setting range	max.	min.				
6	10	6	9.9	8.6	18.5	10.35	19	8.6	6	3	1.5	2.5
	20					11.45	29	17.5				
	30						39	27.5				
	40						49	37.5				
	50						59	47.5				
8	10	7	12.3	8.7	21	10.1	18.8	8.7	14.8	4	1.5	3
	20					13.5	28.8	15.3				
	30						38.8	25.3				
	40						48.8	35.3				
	50						58.8	45.3				
	80						88.8	75.3				
10	10	8	13.3	10.7	24	10.1	20.8	10.7	14.4	5	2	4
	20					14.4	30.8	16.4				
	30						40.8	26.4				
	40						50.8	36.4				
	50						60.8	46.4				
	80						90.8	76.4				
	100						110.8	96.4				
									6.4			
12	10	10	17.4	10.6	28	10.2	20.8	10.6	15.4	6	2.5	5
	20					18.4	30.8	12.4				
	30						40.8	22.4				
	40						50.8	32.4				
	50						60.8	42.4				
	80						90.8	72.4				
	100						110.8	92.4				
									1.9			

Datasheet

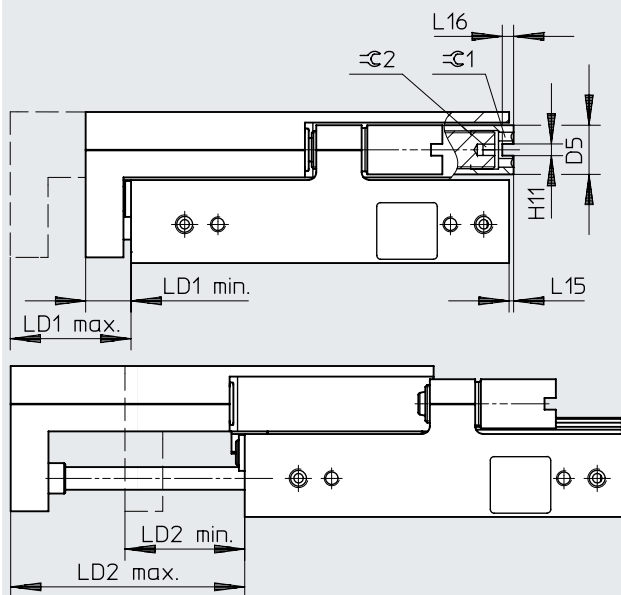
Size	Stroke [mm]	D5 ∅	Retracted end position LD1			Advanced end position LD2			L15	≡ 1	≡ 2	≡ 3
			Setting range	min.	max.	Setting range	max.	min.				
16	10	13	16.4	12.6	29	10.2	22.8	12.6	17.9	8	3	6
	20						32.8	22.6	20.9			
	30						42.8	32.6	23.9			
	40						52.8	42.6				
	50						62.8	52.6	18.9			
	80						92.8	82.6	10.9			
	100						112.8	102.6				
	125						132.8	122.6				
	150						162.8	152.6	0			

Datasheet

Dimensions

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



-  - **Note**

Adjust and secure the cushioning components under pressure.

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

Datasheet

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

Datasheet

Dimensions

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

Note
Adjust and secure the cushioning components under pressure.

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

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

Datasheet

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

Datasheet

Ordering data							
Size	Stroke [mm]	Part no.	Type	Size	Stroke [mm]	Part no.	Type
With cushioning E1				With cushioning P			
6	10	8078828	DGST-6-10-E1A	6	10	8085105	DGST-6-10-PA
	20	8078829	DGST-6-20-E1A		20	8085106	DGST-6-20-PA
	30	8078830	DGST-6-30-E1A		30	8085107	DGST-6-30-PA
	40	8078831	DGST-6-40-E1A		40	8085108	DGST-6-40-PA
	50	8078832	DGST-6-50-E1A		50	8085109	DGST-6-50-PA
8	10	★ 8078833	DGST-8-10-E1A	8	10	8085110	DGST-8-10-PA
	20	★ 8078834	DGST-8-20-E1A		20	8085111	DGST-8-20-PA
	30	★ 8078835	DGST-8-30-E1A		30	8085112	DGST-8-30-PA
	40	★ 8078836	DGST-8-40-E1A		40	8085113	DGST-8-40-PA
	50	★ 8078837	DGST-8-50-E1A		50	8085114	DGST-8-50-PA
	80	★ 8078838	DGST-8-80-E1A		80	8085115	DGST-8-80-PA
10	10	★ 8078839	DGST-10-10-E1A	10	10	8085116	DGST-10-10-PA
	20	★ 8078840	DGST-10-20-E1A		20	8085117	DGST-10-20-PA
	30	★ 8078841	DGST-10-30-E1A		30	8085118	DGST-10-30-PA
	40	★ 8078842	DGST-10-40-E1A		40	8085119	DGST-10-40-PA
	50	★ 8078843	DGST-10-50-E1A		50	8085120	DGST-10-50-PA
	80	★ 8078844	DGST-10-80-E1A		80	8085121	DGST-10-80-PA
12	10	★ 8078846	DGST-12-10-E1A	12	10	8085123	DGST-12-10-PA
	20	★ 8078847	DGST-12-20-E1A		20	8085124	DGST-12-20-PA
	30	★ 8078848	DGST-12-30-E1A		30	8085125	DGST-12-30-PA
	40	★ 8078849	DGST-12-40-E1A		40	8085126	DGST-12-40-PA
	50	★ 8078850	DGST-12-50-E1A		50	8085127	DGST-12-50-PA
	80	★ 8078851	DGST-12-80-E1A		80	8085128	DGST-12-80-PA
16	10	★ 8078853	DGST-16-10-E1A	16	10	8085130	DGST-16-10-PA
	20	★ 8078854	DGST-16-20-E1A		20	8085131	DGST-16-20-PA
	30	★ 8078855	DGST-16-30-E1A		30	8085132	DGST-16-30-PA
	40	★ 8078856	DGST-16-40-E1A		40	8085133	DGST-16-40-PA
	50	★ 8078857	DGST-16-50-E1A		50	8085134	DGST-16-50-PA
	80	★ 8078858	DGST-16-80-E1A		80	8085135	DGST-16-80-PA
	100	★ 8078859	DGST-16-100-E1A		100	8085136	DGST-16-100-PA
	125	8078860	DGST-16-125-E1A		125	8085137	DGST-16-125-PA
	150	8078861	DGST-16-150-E1A		150	8085138	DGST-16-150-PA

Datasheet

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

Datasheet

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

Ordering data – Modular product system

Ordering table										
Size	6	8	10	12	16	20	25	Conditions	Code	Enter code
Module no.	8073891	8073892	8073893	8073894	8073895	8073896	8073897			
Function	Mini slide								DGST	DGST
Size [mm]	6	8	10	12	16	20	25		~...	
Stroke [mm]	10	10	10	10	10	10	10		~...	
	20	20	20	20	20	20	20		~...	
	30	30	30	30	30	30	30		~...	
	40	40	40	40	40	40	40		~...	
	50	50	50	50	50	50	50		~...	
	–	80	80	80	80	80	80		~...	
	–	–	100	100	100	100	100		~...	
	–	–	–	–	125	125	125		~...	
	–	–	–	–	150	150	150		~...	
	–	–	–	–	–	200	200		~...	
Version	Standard									
	Mirror-inverted								-L	
Cushioning	Elastomer cushioning, short, at both ends								-E	
	Elastic cushioning rings/plates at both ends								-P	
	Elastomer cushioning, at both ends, stroke not adjustable								-E1	
	Elastomer cushioning, adjustable at both ends, with fixed stop					–	–		-P1	
	Shock absorber, self-adjusting, linear, at both ends, external							[1]	-Y12	
Position sensing	Via proximity switch								A	
Special material properties	Without									
	Recommended for production plants for manufacturing lithium-ion batteries							[2]	-F1A	
Lubrication	Standard									
	Lubrication approved for use in food applications							[3]	-H1	

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

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

3) H1 Not in combination with Y12

Accessories

Connection set DADG-AK-G8-...

Material:

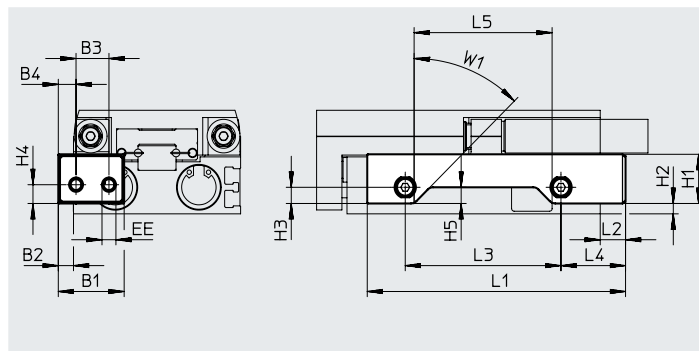
Adapter: Epoxy resin

Seals: NBR

Screws: Coated steel

–  – Note:

Connection set DADG-AK-G8-... not in combination with DGST-...-L-... (mirror-inverted)



Dimensions and ordering data

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

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

1)

Corrosion resistance class CRC 1 to Festo standard FN 940070

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

Accessories

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

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

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

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

Accessories

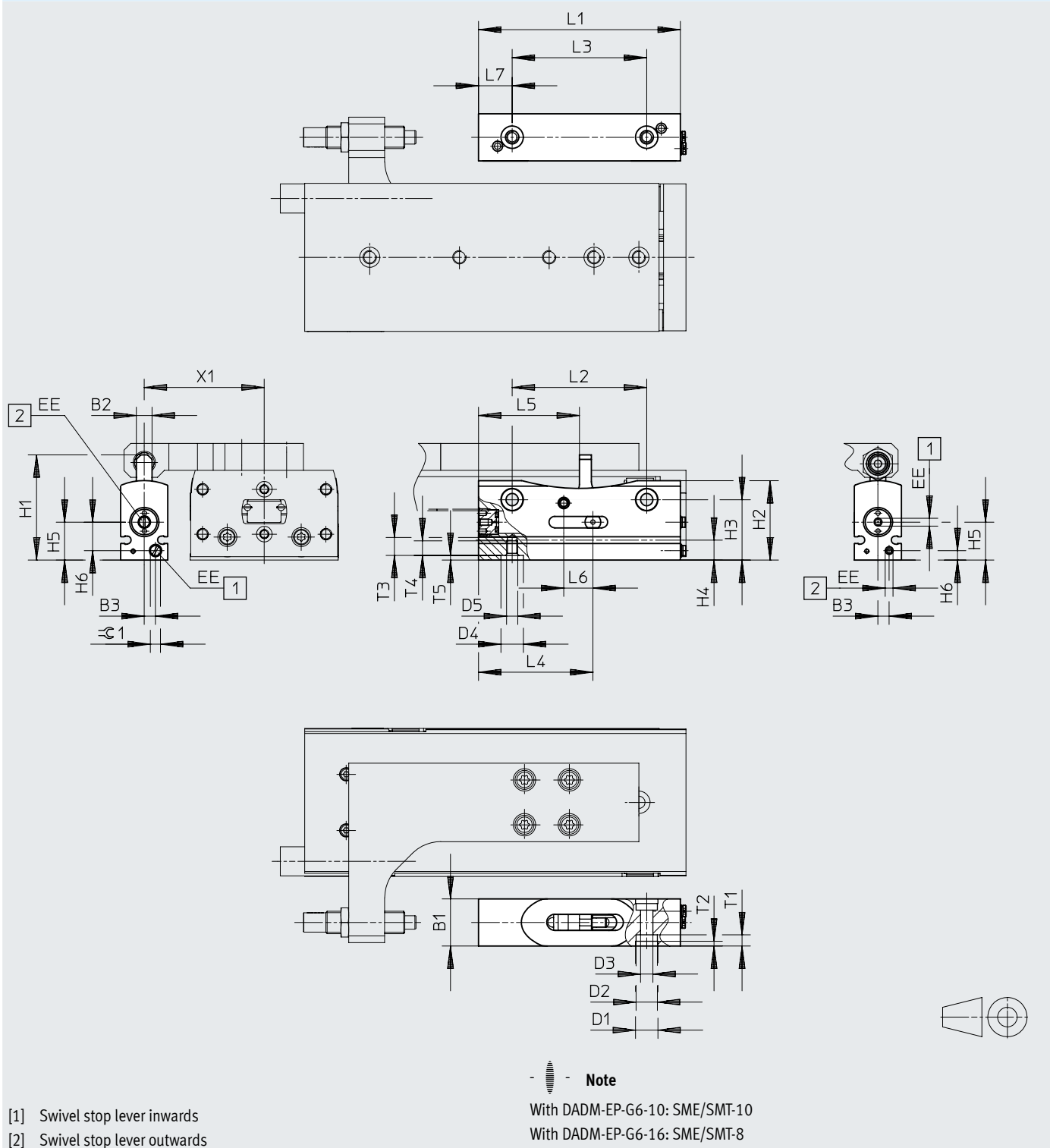
Intermediate-position module DADM

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



Dimensions and ordering data

Datasheets → Internet: dadm



Accessories

For size	B1	B2	B3 ±0.1	D1 ∅ H7	D2 ∅	D3 ∅	D4 ∅ H7	D5	EE	H1	H2
12, 16	21	7	5	10	9.5	5.5	10	M5	M3	46.9	35.4
20, 25	26.5	9	5.5	12	11	6.6	12	M6	M5	65.2	47.4

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

For size	T1	T2 +0.2	T3	T4	T5 +0.1	X1	±C1	Weight [g]	Part no.	Type
12	5	2.1	8	6.5	2.1	50.5	4.5	154	1492072	DADM-EP-G6-10
16						53.5				
20	6.8	2.1	10	8	2.1	70.75	2.5	340	1478121	DADM-EP-G6-16
25						80.25				

Ordering data

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

1) Packaging unit

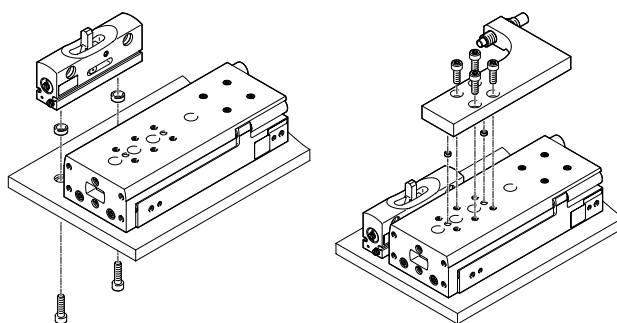
Mounting

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

DGST-12/16: 10 mm

DGST-20/25: 15 mm

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



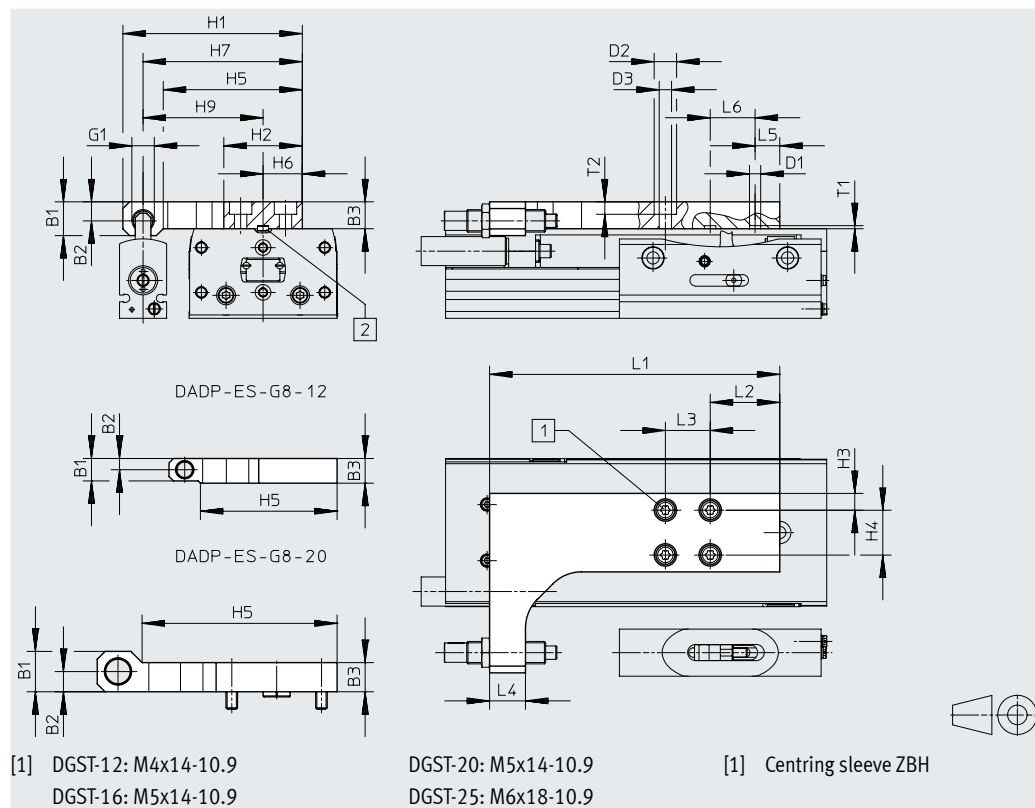
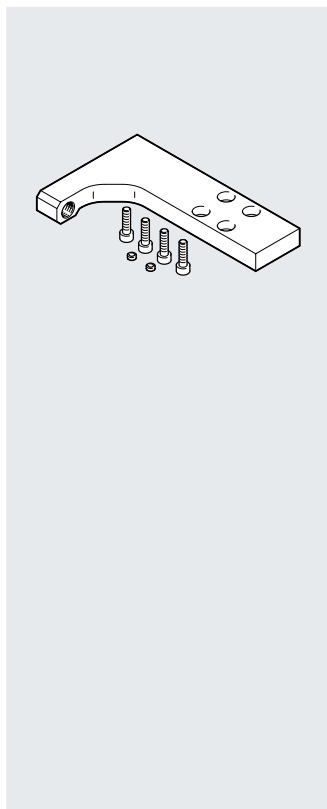
Precision adjustment:

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

Accessories

Shock absorber retainer DADP

Material:
Anodised wrought aluminium alloy
RoHS-compliant



Dimensions and ordering data

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

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

Ordering data

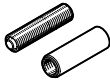
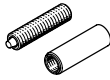
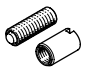
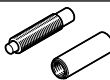
For size	Description	Part no.	Type	PU ¹⁾
Centring sleeve ZBH				
12, 16	For centring the shock absorber retainer (2 pieces included in the scope of delivery of the shock absorber retainer)	8146543	ZBH-5-B	10
20, 25		8137185	ZBH-12-B	

1) Packaging unit

Note

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

Accessories

Ordering data – Shock absorbers				
	For size	Description	Part no.	Type
For DGST....-P			Datasheets → Internet: dyef	
	6	• Scope of delivery: 1 cushioning component and 1 threaded sleeve • Elastic cushioning rings/plates at both ends • Included in the scope of delivery for DGST....-P (pack of 2)	★ 8073902	DYEF-G8-M4-Y1
	8		8131070	DYEF-G8-M4-Y1-F1A
	10		★ 8073903	DYEF-G8-M5-Y1
	12		8131071	DYEF-G8-M5-Y1-F1A
	16		★ 8073904	DYEF-G8-M6-Y1
	20		8131072	DYEF-G8-M6-Y1-F1A
	25		★ 8073905	DYEF-G8-M8-Y1
			8131073	DYEF-G8-M8-Y1-F1A
			★ 8073906	DYEF-G8-M10-Y1
	8131074	DYEF-G8-M10-Y1-F1A		
	★ 8073907	DYEF-G8-M12-Y1		
	8132355	DYEF-G8-M12-Y1-F1A		
	★ 8073908	DYEF-G8-M14-Y1		
	8132356	DYEF-G8-M14-Y1-F1A		
For DGST....-P1			Datasheets → Internet: dyef	
	6	• Scope of delivery: 1 cushioning component and 1 threaded sleeve • Elastomer cushioning, adjustable at both ends, with fixed stop • Included in the scope of delivery for DGST....-P1 (pack of 2)	8160234	DYEF-G8-M4-Y1F
	8		8160235	DYEF-G8-M5-Y1F
	10		8160236	DYEF-G8-M6-Y1F
	12		8160237	DYEF-G8-M8-Y1F
	16		8160238	DYEF-G8-M10-Y1F
For DGST....-E			Datasheets → Internet: dyef	
	6	• Scope of delivery: 1 cushioning component and 1 threaded sleeve • Elastomer cushioning, short, at both ends • Included in the scope of delivery for DGST....-E (pack of 2)	8159470	DYEF-G8-S-M4-Y1
	8		8159471	DYEF-G8-S-M5-Y1
	10		8159472	DYEF-G8-S-M6-Y1
	12		8159473	DYEF-G8-S-M8-Y1
	16		8159474	DYEF-G8-S-M10-Y1
	20		8159475	DYEF-G8-S-M12-Y1
	25		8159476	DYEF-G8-S-M14-Y1
For DGST....-Y12			Datasheets → Internet: dyss	
	6	• Scope of delivery: 1 cushioning component and 1 threaded sleeve • Shock absorber, self-adjusting, linear, at both ends, external • Included in the scope of delivery for DGST....-Y12 (pack of 2) • Only possible from a stroke of 30 mm • Set minimum stroke ≥ 2x cushioning length	★ 8073911	DYSS-G8-2-4-Y1F
	8		8119980	DYSS-G8-2-4-Y1F-F1A
	10		★ 8111383	DYSS-G8-3-4-Y1F-G2
	12		8119981	DYSS-G8-3-4-Y1F-F1A-G2
	16		★ 8111384	DYSS-G8-4-4-Y1F-G2
	20		8119982	DYSS-G8-4-4-Y1F-F1A-G2
	25		★ 8073914	DYSS-G8-5-5-Y1F
			8119983	DYSS-G8-5-5-Y1F-F1A
			★ 8073915	DYSS-G8-7-5-Y1F
			8119984	DYSS-G8-7-5-Y1F-F1A
			★ 8073916	DYSS-G8-8-8-Y1F
			8132349	DYSS-G8-8-8-Y1F-F1A
			★ 8073917	DYSS-G8-10-10-Y1F
	8132350	DYSS-G8-10-10-Y1F-F1A		

Accessories

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

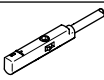
1) Packaging unit

Accessories

Proximity switch for size 6 ... 12

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

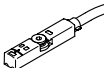
Datasheets → Internet: smt

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

Proximity switch for size 16 ... 25

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

Datasheets → Internet: smt

	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-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
		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 – Connecting cables

Datasheets → 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
	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

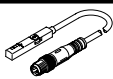
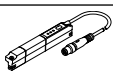
Position transmitters

The position transmitter continuously senses the position of the piston.

It has an analogue output with an output signal relative to the piston position.

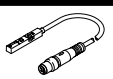
Ordering data – Position transmitters for T-slot

[Datasheets → Internet: position transmitter](#)

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

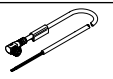
Ordering data – Position transmitters for T-slot

[Datasheets → Internet: sdas](#)

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

Ordering data – Connecting cables

[Datasheets → Internet: nebu](#)

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type
	Straight socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541342	NEBU-M8G4-K-2.5-LE4
			5	541343	NEBU-M8G4-K-5-LE4
	Angled socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541344	NEBU-M8W4-K-2.5-LE4
			5	541345	NEBU-M8W4-K-5-LE4

Accessories

Adapter kit
DHAA

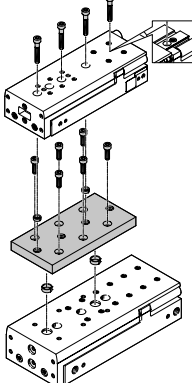
Material:
Wrought aluminium alloy
RoHS-compliant

"Further possible combinations can be found in the relevant PDFs for ERMB, DHRS, DHWS, DHPS, HGPD and HGPT."



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
	DGST	DGST	DHAA		
	6-10, 6-20	6-10	2	8161573	DHAA-D-G8-H-6-10-G8-6-10
	6-20	6-20			
	6-30	6-20, 6-30			
	6-40	6-30, 6-40		8161574	DHAA-D-G8-H-6-40-G8-6-30
	6-50	6-40, 6-50			
	8-10	6-10		8161581	DHAA-D-G8-H-8-10-G8-6-10
	8-20	6-10, 6-20			
	8-30	6-20, 6-30		8161582	DHAA-D-G8-H-8-30-G8-6-30
	8-40	6-30, 6-40			
	8-10	8-10		8161581	DHAA-D-G8-H-8-10-G8-6-10
	8-20	8-10, 8-20			
	8-30	8-20, 8-30		8161582	DHAA-D-G8-H-8-30-G8-6-30
	8-40	8-30, 8-40			
	8-50	8-40, 8-50		8161580	DHAA-D-G8-H-8-50-G8-6-40
	8-80	8-50, 8-80			
	10-10	8-10		8161664	DHAA-D-G8-H-10-10-G8-8-10
	10-20	8-10, 8-20			
	10-30	8-20, 8-30			
	10-40	8-30, 8-40		8161665	DHAA-D-G8-H-10-40-G8-8-30
	10-50	8-40, 8-50			
	10-80	8-50, 8-80		8161666	DHAA-D-G8-H-10-80-G8-8-50
	10-100	8-80			
	10-10	10-10		8161911	DHAA-D-G8-H-10-10-G8-10-10
	10-20	10-10, 10-20			
	10-30	10-20, 10-30			
	10-40	10-30, 10-40		8161912	DHAA-D-G8-H-10-40-G8-10-30
	10-50	10-40, 10-50			
	10-80	10-50, 10-80		8161910	DHAA-D-G8-H-10-80-G8-10-50
	10-100	10-80, 10-100			
	12-10	10-10		8161934	DHAA-D-G8-H-12-10-G8-10-10
	12-20	10-10, 10-20			
	12-30	10-20, 10-30			
	12-40	10-30, 10-40		8161936	DHAA-D-G8-H-12-40-G8-10-30
	12-50	10-40, 10-50		8161937	DHAA-D-G8-H-12-50-G8-10-40
	12-80	10-50, 10-80		8161939	DHAA-D-G8-H-12-80-G8-10-50
	12-100	10-80, 10-100			
	12-10	12-10		8161935	DHAA-D-G8-H-12-10-G8-12-10
	12-20	12-10, 12-20			
	12-30	12-20, 12-30			
	12-40	12-30, 12-40		8161933	DHAA-D-G8-H-12-40-G8-12-30
	12-50	12-40, 12-50		8161940	DHAA-D-G8-H-12-50-G8-12-40
	12-80	12-50, 12-80		8161938	DHAA-D-G8-H-12-80-G8-12-50
	12-100	12-80, 12-100			

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

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

Accessories

Adapter kit
DHAA

Material:
Wrought aluminium alloy
RoHS-compliant

"Further possible combinations can be found in the relevant PDFs for ERMb, DHRS, DHWS, DHPS, HGPD and HGPT."



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
DGST/DGST	DGST	DGST	DHAA		
	16-10	12-10	2	8161925	DHAA-D-G8-H-16-10-G8-12-10
	16-20	12-10, 12-20			
	16-30	12-20, 12-30			
	16-40	12-30, 12-40			
	16-50	12-40, 12-50		8161927	DHAA-D-G8-H-16-50-G8-12-40
	16-80	12-50, 12-80			
	16-100	12-80, 12-100			
	16-10	16-10		8161918	DHAA-D-G8-H-16-10-G8-16-10
	16-20	16-10, 16-20			
	16-30	16-20, 16-30			
	16-40	16-30, 16-40			
	16-50	16-40, 16-50		8161919	DHAA-D-G8-H-16-50-G8-16-40
	16-80	16-50, 16-80			
	16-100	16-80, 16-100		8161920	DHAA-D-G8-H-16-100-G8-16-80
	16-125	16-100, 16-125		8161917	DHAA-D-G8-H-16-125-G8-16-100
	16-150	16-125, 16-150			
	20-10	16-10		8161233	DHAA-D-G8-H-20-10-G8-16-10
	20-20	16-10, 16-20			
	20-30	16-20, 16-30			
	20-40	16-30, 16-40			
	20-50	16-40, 16-50			
	20-80	16-50, 16-80		8161232	DHAA-D-G8-H-20-80-G8-16-50
	20-100	16-80, 16-100			
	20-125	16-100, 16-125		8161234	DHAA-D-G8-H-20-125-G8-16-100
	20-150	16-125, 16-150			
	20-200	16-150			
	20-10	20-10		8161370	DHAA-D-G8-H-20-10-G8-20-10
	20-20	20-10, 20-20			
	20-30	20-20, 20-30			
	20-40	20-30, 20-40			
	20-50	20-40, 20-50			
	20-80	20-50, 20-80		8161371	DHAA-D-G8-H-20-80-G8-20-50
	20-100	20-80, 20-100			
	20-125	20-100, 20-125		8161372	DHAA-D-G8-H-20-125-G8-20-100
	20-150	20-125, 20-150			
	20-200	20-150, 20-200		8161369	DHAA-D-G8-H-20-200-G8-20-150
	25-10	20-10		8161381	DHAA-D-G8-H-25-10-G8-20-10
	25-20	20-10, 20-20			
	25-30	20-20, 20-30			
	25-40	20-30, 20-40			
	25-50	20-40, 20-50			

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 that are in direct contact with a normal industrial environment.

Accessories

Adapter kit
DHAA

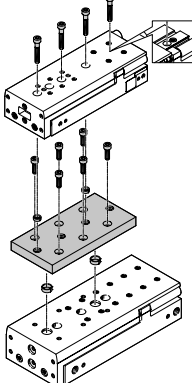
Material:
Wrought aluminium alloy
RoHS-compliant

"Further possible combinations can be found in the relevant PDFs for ERMB, DHRS, DHWS, DHPS, HGPD and HGPT."



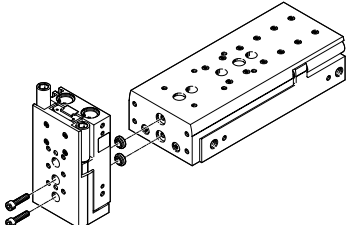
Note

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	
	DGST	DGST	DHAA			
	25-80	20-50, 20-80	2	8161382	DHAA-D-G8-H-25-80-G8-20-50	
	25-100	20-80, 20-100		8161383	DHAA-D-G8-H-25-125-G8-20-100	
	25-125	20-100, 20-125		8161384	DHAA-D-G8-H-25-200-G8-20-150	
	25-150	20-125, 20-150				
	25-200	20-150, 20-200				
	25-10	25-10		8161386	DHAA-D-G8-H-25-10-G8-25-10	
	25-20	25-10, 25-20				
	25-30	25-20, 25-30				
	25-40	25-30, 25-40				
	25-50	25-40, 25-50				
	28-80	25-50, 25-80		8161387	DHAA-D-G8-H-25-80-G8-25-50	
	25-100	25-80, 25-100		8161388	DHAA-D-G8-H-25-125-G8-25-100	
	25-125	25-100, 25-125				
	25-150	25-125, 25-150		8161385	DHAA-D-G8-H-25-200-G8-25-150	
	25-200	25-150, 25-200				

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 that are in direct contact with a normal industrial environment.

Permissible drive/drive combinations without/with adapter kit				Download CAD data → www.festo.com	
Combination	[1] Drive	[2] Drive	Adapter kit		
	Size	Size	CRC ¹⁾	Part no.	Type
DGST/DGST	DGST	DGST			
	Without adapter kit		Screw and centring sleeve ²⁾		
	8	6	-		M3x14
	10	6		8146543	ZBH-5-B
					M3x14
	10	8		8146543	ZBH-5-B
					M3x18
	12, 16	10		8146543	ZBH-5-B
					M4x22
	16	12		8146544	ZBH-7-B
					M4x27
	20	16		8146544	ZBH-7-B
				M5x30	
	25	20	548806	ZBV-12-9	
				M6x40	
			8137185	ZBH-12-B	
	With adapter kit		DHAA		
	12	8	2	8167641	DHAA-D-G8-12-G8-8
	20	12		8167640	DHAA-D-G8-20-G8-12
	25	16		8167639	DHAA-D-G8-25-G8-16

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 that are in direct contact with a normal industrial environment.

2) 2 pieces each