Linear drives DGC





Festo Core Range

With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added

the quickest delivery.

The Core Range offers you the best value for your automation tasks.



Fast:

Worldwide:

Simply good:

Solves the majority of your automation tasks

Quickest delivery – wherever, whenever Expected high Festo quality Easy and fast to select



At a glance

- Compact installation length relative to stroke
- Loads and devices can be directly mounted on the slide.
- Three types of cushioning available:
 - Elastic cushioning
 - Pneumatic cushioning
 - Hydraulic cushioning
- All settings accessible from one
 - Precision end-position adjustment
 - Position of proximity sensors
 - Mounting of drive
 - Regulating speed
 - Pneumatic end-position cushioning

· Sealing system



Advantages of the sealing system

- Long strokes with no restrictions
- Virtually no leakage

• Optional: NSF-H1 lubricant for the food area

The linear drive is of limited suitability for the food area. Additional information: www.festo.com/sp

→ Certificates

Not approved for use in the food area:

- DGC-...-GP (protected version)
- · DGC-... with integrated shock absorbers

Sealing band

Guide variants

Compact design DGC-K



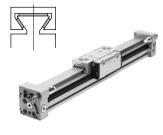
- Piston diameter 18 ... 80 mm
- Stroke lengths from 1 ... 8500 mm
- 30% narrower than the DGC-G
- · Low moving dead weight
- Symmetrical design

Basic design DGC-G



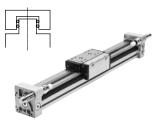
- Piston diameter 8 ... 63 mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0.2 mm
- · For small loads
- Operating behaviour under torque load = average

Plain-bearing guide DGC-GF



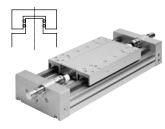
- Piston diameter 18 ... 63 mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0.05 mm
- For small and medium loads
- · Operating behaviour under torque load = average

Recirculating ball bearing guide DGC-KF



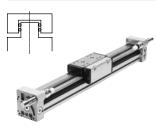
- Piston diameter 8 ... 63 mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0 mm
- · For medium and large loads
- Precision mounting interface with stainless steel slide
- · Operating behaviour under torque load = very good

Heavy-duty guide DGC-HD



- Piston diameter 18, 25, 40 mm
- Stroke lengths from 10 ... 5000 mm
- Guide backlash = 0 mm
- For large loads
- · Operating behaviour under torque load = very good

Guide axis DGC-FA



- · Without drive
- Piston diameter 8 ... 63 mm
- Stroke lengths from 1 ... 8500 mm
- Guide backlash = 0 mm
- Precision guide, suitable for the DGC-KF. Can be used as machine component or as a twin guide with the DGC-KF

Versatility

[1] Compressed air supply ports



- Optionally on 2 sides (on the side or at the front)
- For DGC-G/DGC-GF/DGC-KF

DL – Compressed air supply port at the left end or at both ends

The linear drive is actuated at the right end or at both ends by default.

The linear drive can be actuated at the left end or at both ends by specifying the order code DL in the modular product system.

- For piston diameters 18, 25, 32, 40, 50, 63 mm
- For DGC-G, DGC-GF, DGC-KF

[2] G/H/I/J - Proximity sensors



- Proximity sensors can be integrated, which means there is no projection.
 The cable can be guided through the slot behind the second sensor
- For DGC-G/DGC-GF/DGC-KF

[3] Precision end-position adjustment



- Between 0 ... 25 mm per side
- For DGC-GF/DGC-KF/DGC-FA

[4] M - Profile mounting



- Profile mounting remains on the base plate after the drive is dismantled. This means faster assembly and removal without repeat adjustment
- For DGC-G/DGC-GF/DGC-KF/DGC-FA

[5] YWZ - Mechanical end-position limiter



- For variable stroke adjustment, e.g. for format adjustments
- The end stop can be mounted at any position along the stroke
- For DGC-GF/DGC-KF/DGC-FA

[6] Z1/Z2/Z3 – Intermediate-position module



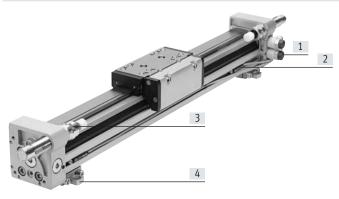
- Enables variable intermediate
- The intermediate-position module can be mounted at any place along the stroke
- Precision repetition accuracy (0.02 mm) with high dynamic response
- For DGC-KF

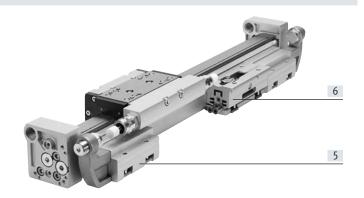
FK – Moment compensator



- Compensates for inaccuracies during mounting of the linear drive and external guide
- Max. offset 2.5 mm
- For DGC-G

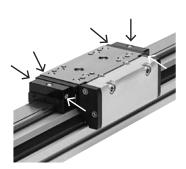
Example





Options

C - Central lubrication



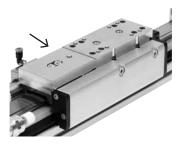
The lubrication adapters enable the guide of the linear drive DGC-KF to be permanently lubricated in applications in humid or wet ambient conditions using semi or fully automatic relubrication devices.

The adapters are suitable for oils and greases.

- For piston diameters 25, 32, 40, 63 mm
- For DGC-KF
- Connections:
 - On both sides of the slide
 - In three places (front, top, rear) on each side

Technical data → page 48

1H-PN - Clamping unit



- 1-channel design, for holding loads
- Reliable holding is guaranteed since the forces act directly on the slide
- A limited number of emergency braking operations are permissible with the sizes 40 and 50
- For piston diameters 25, 32, 40, 50 mm
- For DGC-KF

Technical data → page 45

Product variants						NY Fy		
	Piston diameter	Theoretical force	M _X Guide chara	octeristics				→ Page/
	1 iston diameter	at 0.6 MPa (6 bar, 8 psi)	Guide chara	icteristics				Internet
	[mm]	[M]	Fy	Fz	Mx	My	Mz	
	[mm]	[N]	[N]	[N]	[Nm]	[Nm]	[Nm]	
ompact design DGC-K	10	452		120	0.0	144	14	
	18 25	153 295	-	120 330	0.8	11 20	3	dgc-k
	32	483	-	480	1.2	40	5	_
	40	754	-	800	3.8	60	8	_
	50	1178	-	1200	6	120	15	
. 6	63	1870	-	1600	5.7	150	24	
	80	3016	-	2500	30.6	400	100	
asic design DGC-G								
asic design DGC-G	8	30	150	150	0.5	2	2	8
	12	68	300	300	1.3	5	5	
10	18	153	70	340	1.9	12	4	
	25	295	180	540	4	20	5	
	32	483	250	800	9	40	12	
3	40	754	370	1100	12	60	25	
	50	1178	480	1600	20	150	37	
	63	1870	650	2000	26	150	48	
ain-bearing guide DGC-GF								
uni bearing galac boe of	18	153	440	540	3.4	20	8.5	22
100	25	295	640	1300	8.5	40	20	
SON	32	483	900	1800	15	70	33	
	40	754	1380	2000	28	110	54	
	50	1178	1500	2870	54	270	103	
010.	63	1870	2300	4460	96	450	187	
circulating ball bearing guide DG	GC-KF							
	8	30	300	300	1.7	4.5	4.5	40
	12	68	650	650	3.5	10	10	
	18	153	1850	1850	16	51	51	
	25	295	3050	3050	36	97	97	
	32	483	3310	3310	54	150	150	
2	40	754	6890	6890	144	380	380	
	50	1178	6890	6890	144	634	634	
	63	1870	15200	15200	529	1157	1157	
eavy-duty guide DGC-HD								
	18	153	3650	3650	140	275	275	dgc-hd
	25	295	5600	5600	300	500	500	
	40	754	13000	13000	900	1450	1450	

Type codes

001	Series	
DGC	Linear drive	
002	Piston diameter	
8	8	
12	12	
18	18	
25	25	
32	32	
40	40	
50	50	
63	63	
003	Stroke	
	1 8500	
004	Guide	
G	Basic variant	
GF	Plain bearing	
KF	Recirculating ball bearing guide	
FA	Passive guide axis	
005	Cushioning	
Р	Elastic cushioning rings/plates on both sides	
PPV	Pneumatic cushioning, adjustable at both ends	
YSR	Self-adjusting shock absorber	
YSRW	Shock absorber, self-adjusting, progressive	
006	Desition concing	
	Position sensing	
Α	For proximity sensor	
007	Compressed air connection	
	At the right end or at both ends	
DL	At the left or at both ends	
Loop	Linksteader	
008	Lubrication	
	Standard	
H1	Food-safe lubrication	
009	Slide	
	Standard	
GP	Protected recirculating ball bearing guide	
010	Lubrication function	
	None	
С	Lubrication adapter	
011	Additional slide left	
	None	
KL	Additional slide, standard, left	
012	Additional slide, right	
100	None	
KR	Additional slide standard, right	
013	Clamping unit	
	None	
1H	Holding function, 1-channel	
	1	ш

014	Actuation time
014	Actuation type
PN	None Pneumatically actuated
PN	Fileumatically actuated
015	EU certification
	None
EX2	II 3GD
EX3	II 2G
016	Accessories
	None
ZUB	Accessories supplied loose
017	Foot mounting
	None
F	1 record
018	Profile mounting
	None
M	1 9 pieces
019	Slot nut, mounting slot
017	Without
В	1 9 pieces
	1 y pieces
020	Moment compensator
	None
FK	Moment compensator
021	Drovinsity quitable cable 2.5 m
021	Proximity switch, cable 2.5 m
G	None 1 9 pieces
0	1 9 pieces
022	Proximity switch, plug M8
	None
Н	1 9 pieces
023	Proximity switch, contactless, cable 2.5 m
	None
l	1 9 pieces
024	Proximity switch, contactless, plug M8
	None
J	1 9 pieces
	The second second
025	Connecting cable, M8, 2.5 m
	None
V	1 9 pieces
026	Slot cover, sensor slot
-	Without
L	1 9 pieces
027	Mechanical end position limitation
	None
YWZ1	Variable end position, one side
YWZ2	Variable end position, both sides

Type codes

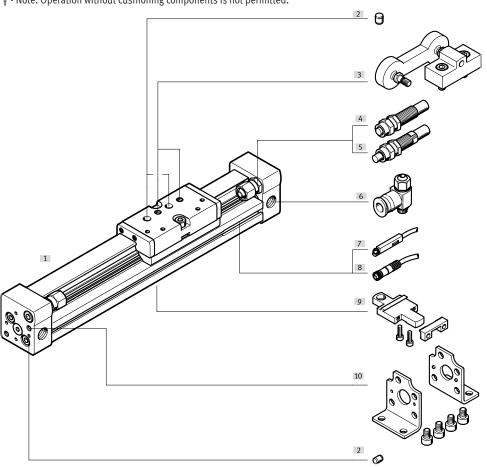
028	Intermediate position	
	None	
Z1	1 intermediate position	
Z2	2 intermediate positions	
Z3	3 intermediate positions	

029	Operating instructions	
	Standard	
0	Express waiver - no operating instructions to be included as already available (operating instructions in PDF format are available free of charge on our website at http://www.festo.com)	

Peripherals overview

DGC-8/-12

- $\mbox{\ensuremath{\sharp}}$ - Note: Operation without cushioning components is not permitted.



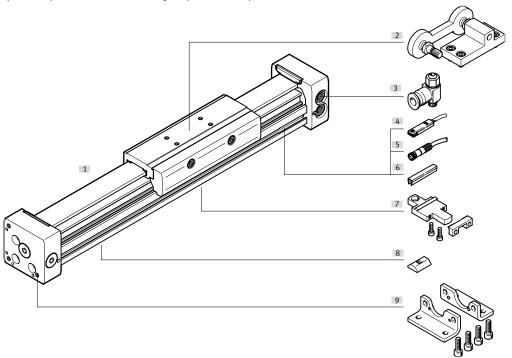
Varia	nts and accessories			
	Type/order code	For piston diam.	Description	→ Page/Internet
[1]	Linear drive DGC-G	8 63	Linear drive without accessories, basic design	10
[2]	Centring pin ¹⁾ ZBS	8, 12	For centring loads and attachments on the slide	74
	Centring pin/sleeve ZBS/ZBH	8, 12, 50, 63	For centring the drive without foot mountings (user-specific)	74
[3]	Moment compensator FK	8 63	Compensates for inaccuracies during mounting of the linear drive and external guide	68
[4]	Shock absorber YSR	8, 12	Self-adjusting, hydraulic shock absorber with spring return and linear cushioning characteristics	21
[5]	Shock absorber YSRW	8, 12	Self-adjusting, hydraulic shock absorber with spring return and progressive cushioning characteristics	21
[6]	One-way flow control valve GRLA	8 63	For regulating speed	75
[7]	Proximity sensor G/H/I/J	8 63	For sensing the slide position	75
[8]	Connecting cable V	8 63	For proximity sensor	76
[9]	Profile mounting M	8 63	Simple and precise mounting option via dovetail connection	66
[10]	Foot mounting F	8 63	For mounting on the end cap	64
_	Cushioning P	8, 12	Non-adjustable, elastic cushioning. Used only at low speeds	21

¹⁾ Included in the scope of delivery of the drive

Peripherals overview

DGC-18 ... 63

- $\mbox{\ensuremath{\frac{1}{9}}}$ - Note: Operation without cushioning components is not permitted.



Varia	ariants and accessories									
	Type/order code	For piston diam.	Description	→ Page/Internet						
[1]	Linear drive DGC-G	8 63	Linear drive without accessories, basic design	10						
[2]	Moment compensator FK	8 63	Compensates for inaccuracies during mounting of the linear drive and external guide	68						
[3]	One-way flow control valve GRLA	8 63	For regulating speed	75						
[4]	Proximity sensor G/H/I/J	8 63	For sensing the slide position	75						
[5]	Connecting cable V	8 63	For proximity sensor	76						
[6]	Slot cover L	18 63	For protecting against contamination and securing the proximity sensor cable in place	74						
[7]	Profile mounting M	8 63	Simple and precise mounting option via dovetail connection.	66						
[8]	Slot nut B	25 63	For mounting attachments	74						
[9]	Foot mounting F	8 63	For mounting on the end cap	64						
-	Cushioning PPV	18 63	Adjustable, pneumatic end-position cushioning. Used at medium speeds.	21						

¹⁾ Included in the scope of delivery of the drive







Diameter

8 ... 63 mm



Stroke length

1 ... 8500 mm



General technical data									
Piston diameter		8	12	18	25	32	40	50	63
Design		Rodless drive							
Moment compensator principle		Slotted cylind	der, mechanicall	y coupled					
Guide		Basic design							
Mode of operation		Double-acting	g						
Stroke	[mm]	1 1500	1 2000	1 3000	1 8500			1 5000	
Pneumatic connection		M5			G1/8		G1/4		G3/8
Cushioning → page 1									
DGCP		Non-adjustab	ole at both ends	s –					
DGCPPV		-		Adjustable at both ends					
DGCYSR		Self-adjusting	g at both ends	_					
Cushioning length with cushioning PPV	[mm]	-		16.5	15.5	17.5	29.5	29.8	31.1
Max. speed	[m/s]	1	1.2	3					
Position sensing		Via proximity	sensor				-		
Type of mounting		Profile mount	ting						
	Foot mounting								
		Direct mounti	ing						
Mounting position		Any				·			

- 🛔

- Note

This product conforms to ISO 1179-1 and ISO 228-1.

Operating and environmental conditions										
Piston diameter		8	12	18	25	32		40	50	63
Operating pressure	[MPa]	0.25 0.8		0.2 0.8				0.15 0.8		
	[bar]	2.5 8		2 8				1.5 8		
[psi]		36.25 116		29 116	29 116			21.75 116		
Operating medium		Compressed a	Compressed air to ISO 8573-1:2010 [7:-:-]							
Note on operating/		Lubricated op	Lubricated operation possible (in which case lubricated operation will always be required)							
pilot medium										
Ambient temperature ¹⁾	[°C]	+5 +60	-10 +60							
Food-safe ²⁾		- → supplementary information on materials								
Corrosion resistance class CRC ³⁾		2								

- 1) Note operating range of proximity sensors
- 2) Additional information is available at www.festo.com/sp → Certificates.
- 3) 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.

Forces [N] and impact energy [J]											
Piston diameter	8	12	18	25	32	40	50	63			
Theoretical force at 0.6 MPa (6 bar , 8 psi)	30	68	153	295	483	754	1178	1870			
Impact energy at the end positions	→ page 1										

ATEX ¹⁾					
Size	8	12 63			
Explosion-proof ambient temperature [°C]	+5°C ≤ Ta ≤ +60°C	-10°C ≤ Ta ≤ +60°C			
CE marking	To EU Explosion Protection Directive (ATEX)				
(see declaration of conformity)					
EX2 certification					
ATEX category for gas	II 3G				
Type of ignition protection for gas	Ex h IIC T4 Gc X				
ATEX category for dust	II 3D				
Type of ignition protection for dust	Ex h IIICT120°C Dc X				
EX3 certification					
ATEX category for gas	II 2G				
Type of ignition protection for gas	Ex h IIC T4 Gb X				

¹⁾ Note the ATEX certification of the accessories.

Weight [g]								
Piston diameter	8	12	18	25	32	40	50	63
Basic weight with 0 mm stroke	170	290	546	1004	2126	4121	9050	14040
Additional weight per 10 mm stroke	9	12	22	34	54	77	116	150
Moving mass	36	65	178	287	508	1312	2850	4330

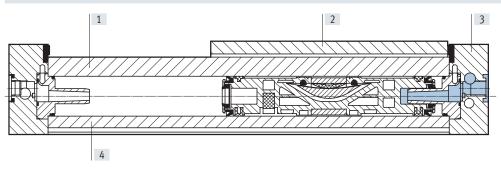
Adjustable end-position range d [mm]



Piston diameter	8	12
Cushioning		
DGCYSR/YSRW	12.8 22.8	14 24

Materials

Sectional view

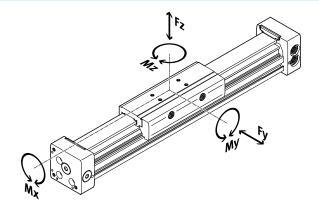


Linea	r drives	
[1]	Guide rail	Anodised aluminium
[2]	Slide	Anodised aluminium
[3]	End cap	Anodised aluminium
[4]	Cylinder barrel	Anodised aluminium
-	Piston seal	Polyurethane
	Sealing band/cover strip	Polyurethane
	Slide elements	Polyacetal
	Note on materials	RoHS-compliant

Characteristic load values

The indicated forces and torques refer to the centre of the slide surface.

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



· 🏺 - Note

To prevent the guide of the basic drive DGC-G from self-locking when used vertically and with a high torque load, the variant with the recirculating ball bearing guide DGC-KF → page 40 is recommended.

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

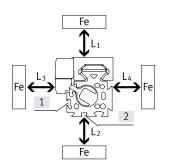
$$\frac{Fy}{Fy_{max.}} + \frac{Fz}{Fz_{max.}} + \frac{Mx}{Mx_{max.}} + \frac{My}{My_{max.}} + \frac{Mz}{Mz_{max.}} \leq 1$$

Permissible forces and torques									
Piston diameter		8	12	18	25	32	40	50	63
Fy _{max} .	[N]	150	300	70	180	250	370	480	650
Fz _{max} .	[N]	150	300	340	540	800	1100	1600	2000
Mx _{max.}	[Nm]	0.5	1.3	1.9	4	9	12	20	26
My _{max} .	[Nm]	2	5	12	20	40	60	150	150
Mz _{max} .	[Nm]	2	5	4	5	12	25	37	48

Influence of ferritic materials on proximity sensors

Ferritic materials (steel parts or sheet metal) in the immediate vicinity of the proximity sensors can cause sensing malfunctions. The following safety distances must be observed.

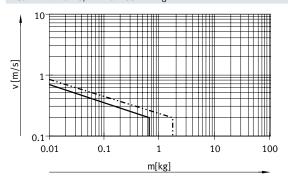
The distance depends on the position of the proximity sensor (see [1] and [2]).



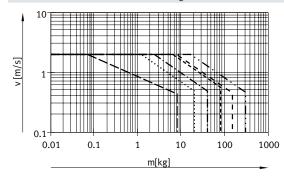
Piston diameter			8	12	18	25	32	40	50	63
Distance L1	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	-	-	0	0	0	0	0	0
Distance L2	[1]	[mm]	20	10	10	10	0	0	0	0
	[2]	[mm]	-	-	25	25	25	25	25	25
Distance L3	[1]	[mm]	30	25	25	25	25	25	25	25
	[2]	[mm]	-	-	10	10	0	0	0	0
Distance L4	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	-	-	0	0	0	0	0	0

Maximum permissible speed v as a function of payload m and distance r_{max} from centre of mass

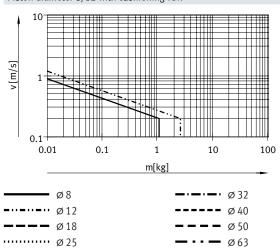
Piston diameter 8/12 with cushioning P



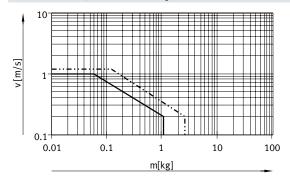
Piston diameter 18 ... 63 with cushioning PPV



Piston diameter 8/12 with cushioning YSR



Piston diameter 8/12 with cushioning YSRW

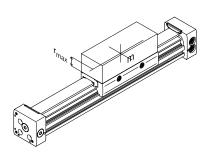


- 🖣 - Note

These specifications represent the maximum values that can be achieved. In practice, these values can fluctuate dependent on the position of the payload and mounting position.

Operating range of the cushioning

The end-position cushioning must be adjusted to ensure jerk-free operation. If the operating conditions are outside the permissible range, the moving mass must be cushioned using suitable equipment (external shock absorbers), preferably at the centre of mass.



- 🖣 - Note

To avoid distortion in the slide, the bearing surfaces of the attachments must maintain a flatness of at least $0.03\ mm$.

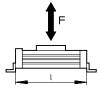
Data for horizontal mounting position:

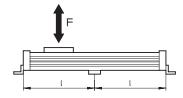
Piston diameter	·	8	12	18	25	32	40	50	63
Distance r _{max.}	[mm]	25	35	35	50	50	50	50	50

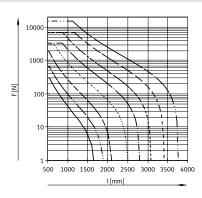
Number of profile mountings MUC as a function of weight force F and distance I between supports

In order to limit deflection in the case of large strokes, the drive may need to be supported. The following graphs are provided to determine the maximum permissible distance between supports as a function of the mounting position and the applied weight and normal forces.

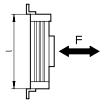
Horizontal mounting position

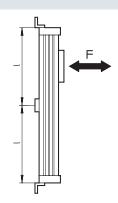


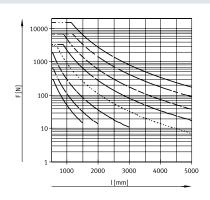




Vertical mounting position









 Ø 32
 Ø 40
 Ø 50
 Ø 63

Example:

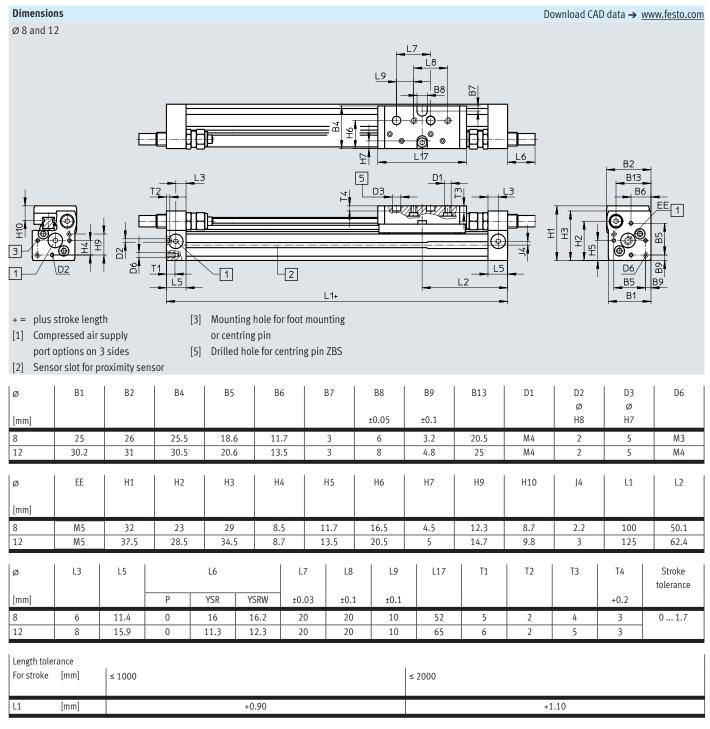
The drive DGC-25-1500 is subjected to a force of 300 N in a horizontal mounting position.

The drive has an overall length of:

- l = stroke length + L1
 (see dimensions)
 - = 1500 mm + 200 mm
 - = 1700 mm

According to the graph, the max. distance between supports for the drive DGC-25 with a force of 300 N is 1300 mm.

In this example, profile mountings are required as the max. distance between supports (1300 mm) is smaller than the overall length of the drive (1700 mm).



Profile barrel

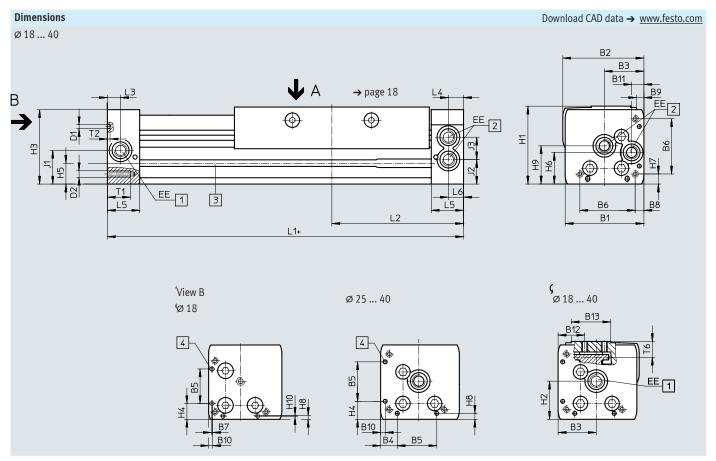
ø8

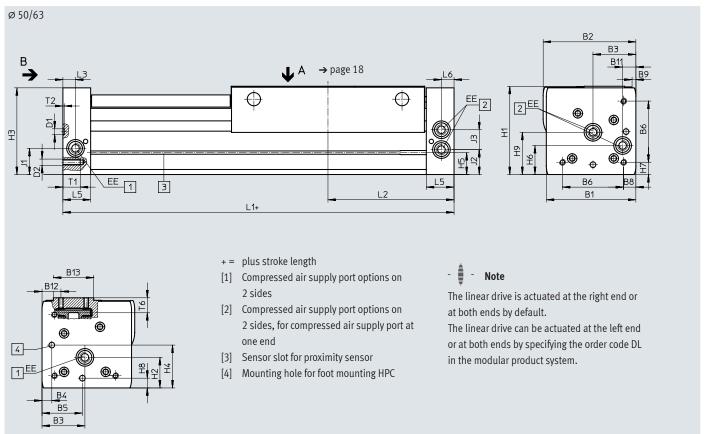
Ø 12





[1] Sensor slot for proximity sensor



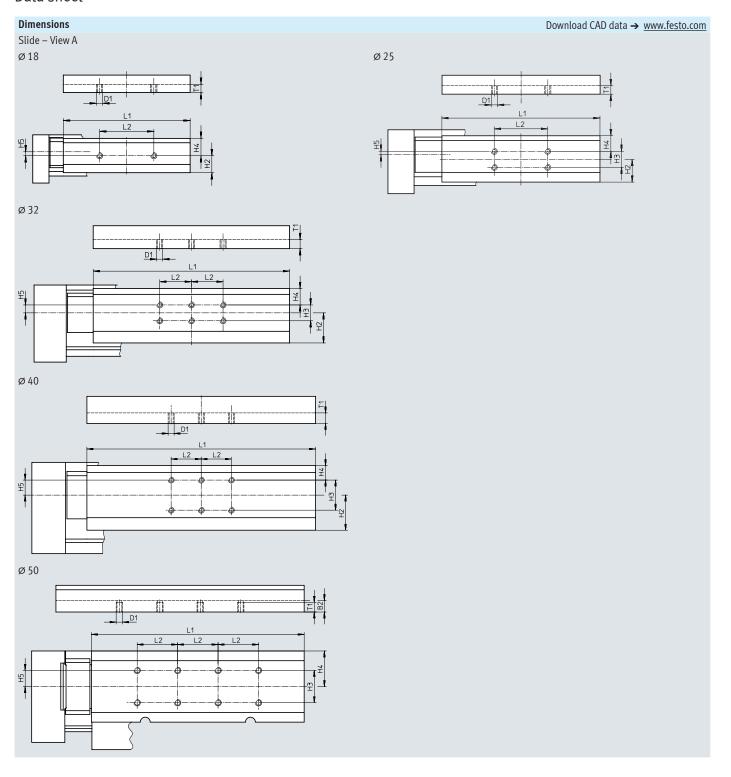


Ø	B1	B2	В3	B4	B5	B6	В7	B8	B9	B10
[mm]					±0.05					
18	44.5	46.3	19.5	8.8	21	31	0.3	3.8	3.3	2.4
25	59.8	61.6	30	12.65	30	42	1	6.65	5.6	3.5
32	73	75.5	38.5	5.7	63.1	57.5	1	8.5	5	14
40	91	94.5	45	17.2	55	65	1	12.2	5.3	8
50	113	122	60	8	52.8	81.6	-	12	0	-
63	142	147	68	15.5	68	97	-	19.5	6	-
Ø	B11	B12	B13	D1 Ø	D2	EE	H1	H2	H3	H4
[mm]				~						±0.2
18	5.5	19.3	20	2±0.05	M4	M5	49.8	23.1	48.3	10.3
25	9.3	20.15	30	3±0.05	M5	G1/8	58.5	29	56.5	13
32	14.9	20.5	35	3±0.05	M6	G1/8	73	30	71.5	5.7
40	16.5	19.8	45	4±0.05	M6	G1/4	88	41.5	85	17.2
50	21	24	64	9 ^{H7}	M8	G1/4	120	38.5	116	52.8
63	21	30	64	9 ^{H7}	M10	G3/8	140	48.5	137.5	68
Ø	H5	Н6	H7	Н8	Н9	H10	J1	J2	J3	L1
[mm]										
18	13.4	20	5.3	2.4	25.2	0.4	20	16.5	11	150
25	15.8	24	7	3.5	29	1	26.1	18.6	17	200
32	17	27.7	8.5	14	35.2	1	30	22	18.5	250
40	25	36.5	12.2	8	44	1	35	26	26	300
50	29.3	36	12	8	53	-	30.5	30.5	28	350
63	34.8	46	19.5	15.5	67	-	41.5	39.5	31.5	400
ø	L2	L3	L4	L5	L6	T1	T2	T6	Stroke t	olerance
[mm]										
18	74.5	5.7	5.8	15	5.5	9	2	10.7	0	. 2.5
25	100	10.5	10.6	24.5	10.6	17.5	2	12	1	
32	124.8	14.5	14.5	30.5	14.5	15	2	13.8	1	
40	150	14.6	14.6	33.5	14.6	20	3	16.8	1	
50	175	17	_	41	17	24	2.1+0.2	20.75	1	
63	200	20	_	44	20	27.5	2.1+0.2	20.75	1	



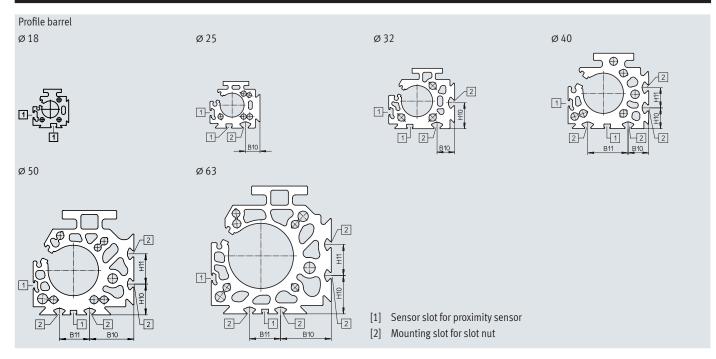
This product conforms to ISO 1179-1 and ISO 228-1.

Length tole	erance									
For stroke	[mm]	≤ 1000	≤ 2000	≤ 3000	≤ 4000	≤ 5000	≤ 6000	≤ 7000	≤ 8000	≤ 9000
L1	[mm]	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40



Dimensions Slide - View A Ø 63

Ø [mm]	B2	D1	H2 ±0.1	H3 ±0.1	H4	H5	L1	L2 ±0.1	T1
18	_	M5	15.6	-	16	2	117±0.05	50	7
25	_	M5	21.35	15	14.55	4.85	148±0.05	50	8
32	-	M5	28.5	15	15.5	7.5	186±0.05	30	8.6
40	-	M6	35	30	14.5	15	228±0.05	30	10.5
50	14	M8	-	40	44	20	263±0.1	50	13
63	14	M8	_	40	44	20	307±0.1	50	13



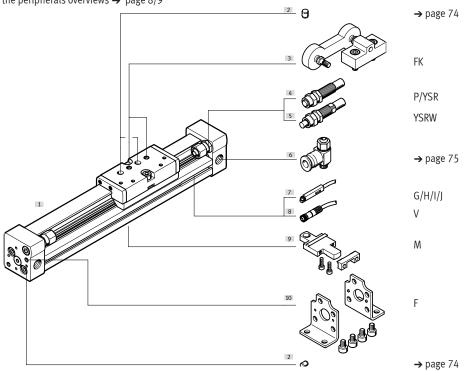
Ø [mm]	B10	B11	H10	H11
25	15.23	-	-	-
32	18	-	26.5	-
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

Ordering data – Modular product system

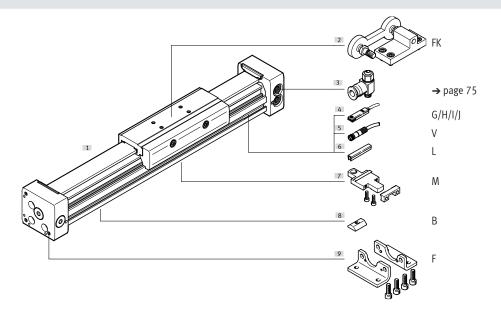
Order code

DGC-8/-12

- $\mbox{\ensuremath{\$}}$ Note: End stops or shock absorbers must not be removed.
- $\mbox{$\frac{4}{3}$}$ Note: The position numbers refer to the peripherals overviews \Rightarrow page 8/9



DGC-18 ... 63



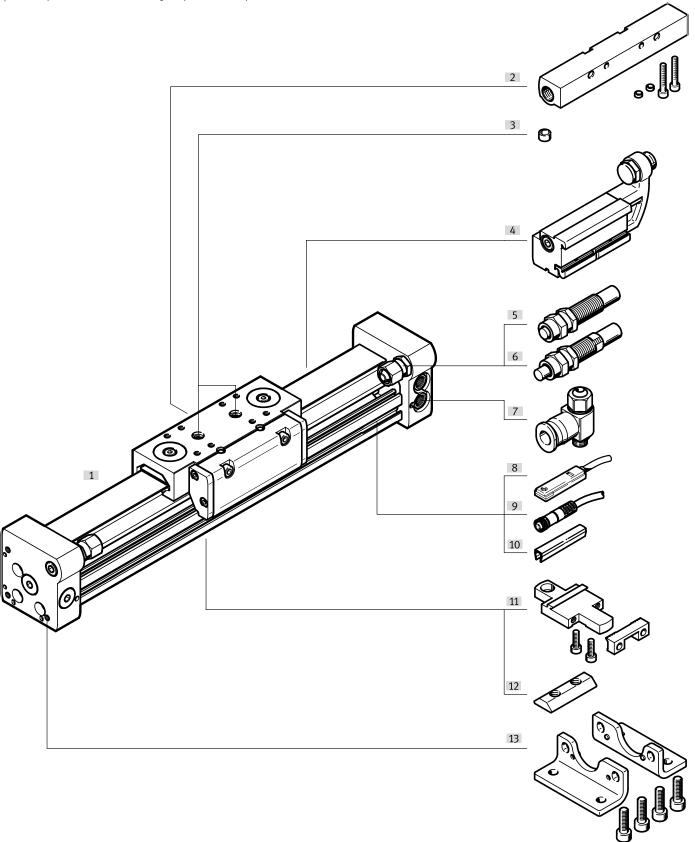
Ordering data – Modular product system

Ordering table	•											
Size		8	12	18	25	32	40	50	63	Condi- tions	Code	Enter code
Module no.		530906	530907	532446	532447	532448	532449	532450	532451			
Function		Linear drive									DGC	DGC
Piston diam.	[mm]	8	12	18	25	32	40	50	63		★	
Stroke	[mm]	1 1500	1 2000	1 3000	1 8500	•		1 5000			★	
Guide		Basic design								★ -G	-G	
Cushioning	At both ends	Elastic cushi plates	oning rings/	-	-	-	-	-	-		★ -P	
	Adjustable at both ends	-	-	Pneumatic c	ushioning						★ -PPV	
	Self-adjusting	Shock absor	ber	-	-	-	-	-	-		-YSR	
		Shock absor progressive	ber,	-	-	-	-	-	-		★ -YSRW	
Position sensi	ng	Via proximity	y sensor								★ -A	-A
Compressed a	ir supply port	At the right e	end or at both	ends							*	
		-	_		nd or at both e	nds					-DL	
Lubrication		-	-	Standard							*	
		-	- Lubrication approved for use in food applications								-H1	
EU certification	1	Without									*	
		II 3GD								[1]	-EX2	
		II 2G								[1]	-EX3	
Accessories		Enclosed sep	parately (can b	e retrofitted)							ZUB-	ZUB-
Foot mounting		1									F	
Profile mounti	ng	1 9									M	
Moment comp	ensator	Without										
			pensator cou	oling							FK	
Slot nut for mo		-	-	-	1 9						В	
Proximity	2.5 m cable	1 9									G	
sensor	Plug M8	1 9									Н	
Proximity	2.5 m cable	1 9									l	
sensor, contactless, PNP	Plug M8	1 9								J		
Connecting cable	M8, 2.5 m	1 9	9								V	
Slot cover for s		-	-	1 9							L	
Operating inst	ructions	Express waiv	/er – no opera	ting instruction	ns to be includ	led (already av	/ailable)				-0	

 $^{[1] \}quad \text{EX2, EX3} \quad \text{ Not with moment compensator FK, proximity sensor G, H, I, J, connecting cable V}$

Peripherals overview

- $\mbox{\ensuremath{\frac{1}{9}}}$ - Note: Operation without cushioning components is not permitted.



Peripherals overview

Varian	ts and accessories			
	Type/order code	For piston diam.	Description	→ Page/Internet
[1]	Linear drive DGC-GF	18 63	Linear drive without accessories, plain-bearing guide	24
[2][4]	Mechanical end-position limiter YWZ	18 63	For variable end-position adjustment, e.g. for format adjustments	70
[3]	Centring pin/sleeve ¹⁾ ZBS/ZBH	18 63	For centring loads and attachments on the slide	74
	Centring sleeve ZBH	50, 63	For centring the drive without foot mountings (user-specific)	74
[5]	Shock absorber YSR	18 63	Self-adjusting, hydraulic shock absorber with spring return and linear cushioning characteristics.	39
[6]	Shock absorber YSRW	18 63	Self-adjusting, hydraulic shock absorber with spring return and progressive cushioning characteristics	39
[7]	One-way flow control valve GRLA	18 63	For regulating speed	75
[8]	Proximity sensor G/H/I/J	18 63	For sensing the slide position	75
[9]	Connecting cable V	18 63	For proximity sensor	76
[10]	Slot cover L	18 63	For protecting against contamination and securing the proximity sensor cable in place	74
[11]	Profile mounting M	18 63	Simple and precise mounting option via dovetail connection.	66
[12]	Slot nut B	25 63	For mounting attachments	74
[13]	Foot mounting F	18 63	For mounting on the end cap	64
-	Cushioning PPV	18 63	Adjustable, pneumatic end-position cushioning. Used at medium speeds.	39

¹⁾ Included in the scope of delivery of the drive







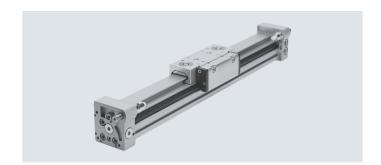
Diameter

18 ... 63 mm



Stroke length

1 ... 8500 mm



General technical data											
Piston diameter		18	25	32	40	50	63				
Design		Rodless drive	Rodless drive								
Moment compensator principle		Slotted cylinder	Slotted cylinder, mechanically coupled								
Guide		Plain-bearing gu	uide								
Mode of operation		Double-acting									
Stroke	[mm]	1 3000	1 8500			1 5000					
Pneumatic connection		M5	G1/8		G1/4		G3/8				
Cushioning → page 27											
DGCPPV		Adjustable at bo	Adjustable at both ends								
DGCYSR		Self-adjusting at both ends									
Cushioning length	[mm]	16.5	15.5	17.5	29.5	29.8	31.1				
with cushioning PPV											
Max. speed	[m/s]	3									
Position sensing		Via proximity se	nsor								
Type of mounting		Profile mounting	g								
		Foot mounting									
		Direct mounting									
Mounting position		Any									



Note

This product conforms to ISO 1179-1 and ISO 228-1.

Operating and environmental conditio	ns						
Piston diameter		18	25	32	40	50	63
Operating pressure	[MPa]	0.2 0.8			0.15 0.8		
	[bar]	2 8			1.5 8		
	[psi]	29 116			21.75 116		
Operating medium		Compressed air to IS	0 8573-1:2010 [7:-:-	-]			
Note on operating/		Lubricated operation	n possible (in which ca	se lubricated operation	will always be require	d)	
pilot medium							
Ambient temperature ¹⁾	[°C]	-10 +60					
Food-safe ²⁾		→ supplementary in	formation on material	S			
Corrosion resistance class CRC ³⁾		2					

- 1) Note operating range of proximity sensors
- 2) Additional information is available at www.festo.com/sp \Rightarrow Certificates.
- 3) 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.

Forces [N] and impact energy [J]									
Piston diameter	18	25	32	40	50	63			
Theoretical force at 0.6 MPa (6 bar , 87psi)	153	295	483	754	1178	1870			
Impact energy at the end positions	→ page 27								

ATEX ¹⁾	
Explosion-proof ambient temperature [°C]	-10°C ≤ Ta ≤ +60°C
CE marking	To EU Explosion Protection Directive (ATEX)
(see declaration of conformity)	
EX2 certification	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex h IICT4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex h IIIC T120°C Dc X
EX3 certification	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex h IIC T4 Gb X

¹⁾ Note the ATEX certification of the accessories.

Weight [g]						
Piston diameter	18	25	32	40	50	63
Basic weight with 0 mm stroke	763	1609	2532	5252	10065	16308
Additional weight per 10 mm stroke	23	35	55	76	117	180
Moving mass	267	526	824	1725	3319	5226

Adjustable end-position range d [mm]



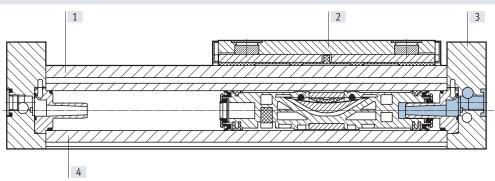


The permissible kinetic energy decreases if the stroke is reduced with PPV adjustable cushioning at both ends.

Piston diameter	18	25	32	40	50	63
Cushioning						
DGCPPV	13.8 15.8	21.1 25.1	25.2 30.2	28.7 33.7	28.7 33.7	38.8 43.8
DGCYSR/YSRW	14.5 24.5	22.5 32.5	27.3 37.3	31 41	31 56	41 76

Materials

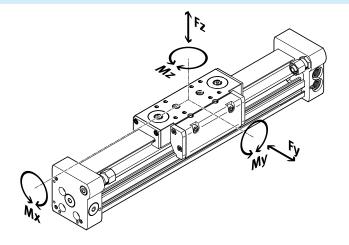
Sectional view



Linea	r drives	
[1]	Guide rail	Anodised aluminium
[2]	Slide	Anodised aluminium
[3]	End cap	Anodised aluminium
[4]	Cylinder barrel	Anodised aluminium
-	Piston seal	Polyurethane
	Sealing band/cover strip	Polyurethane
	Slide elements	Polyacetal
	Note on materials	RoHS-compliant

Characteristic load values

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



· 🖢 - Note

To prevent the drive with plain-bearing guide DGC-GF from self-locking when used vertically and with a high torque load, the variant with the recirculating ball bearing guide DGC-KF → page 40 is recommended.

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

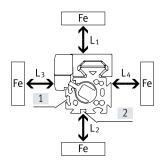
$$\frac{Fy}{Fy_{max.}} + \frac{Fz}{Fz_{max.}} + \frac{Mx}{Mx_{max.}} + \frac{My}{My_{max.}} + \frac{Mz}{Mz_{max.}} \le 1$$

Permissible forces and to	Permissible forces and torques in relation to a travel speed of 0.2 m/s										
Piston diameter		18	25	32	40	50	63				
Fy _{max} .	[N]	440	640	900	1380	1500	2300				
Fz _{max} .	[N]	540	1300	1800	2000	2870	4460				
Mx _{max.}	[Nm]	3.4	8.5	15	28	54	96				
My _{max} .	[Nm]	20	40	70	110	270	450				
Mz _{max} .	[Nm]	8.5	20	33	54	103	187				

Influence of ferritic materials on proximity sensors

Ferritic materials (steel parts or sheet metal) in the immediate vicinity of the proximity sensors can cause sensing malfunctions. The following safety distances must be observed.

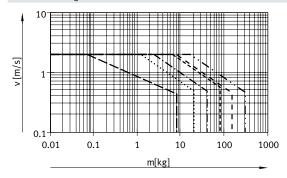
The distance depends on the position of the proximity sensor (see [1] and [2]).



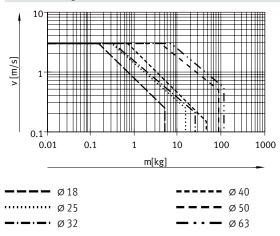
Piston diameter			8	12	18	25	32	40	50	63
Distance L1	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	-	-	0	0	0	0	0	0
Distance L2	[1]	[mm]	20	10	10	10	0	0	0	0
	[2]	[mm]	-	-	25	25	25	25	25	25
Distance L3	[1]	[mm]	30	25	25	25	25	25	25	25
	[2]	[mm]	-	-	10	10	0	0	0	0
Distance L4	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	-	_	0	0	0	0	0	0

Maximum permissible piston speed v as a function of payload m and distance r_{max} from the centre of mass

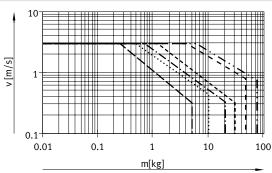
With cushioning PPV



With cushioning YSR



With cushioning YSRW





These specifications represent the maximum values that can be achieved. In practice, these values can fluctuate dependent on the position of the payload and mounting position.

Operating range of the cushioning

The end-position cushioning must be adjusted to ensure jerk-free operation. If the operating conditions are outside the permissible range, the moving mass must be cushioned using suitable equipment (external shock absorbers), preferably at the centre of mass.

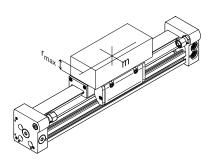


Note

To avoid distortion in the slide, the bearing surfaces of the attachments must maintain a flatness of at least 0.03 mm.

Data for horizontal mounting position:

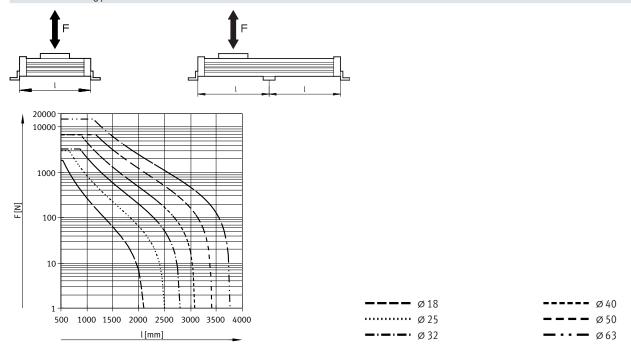
Data for Horizonta	at mounting	Posici	0111						
Piston diameter		8	12	18	25	32	40	50	63
Distance r _{max.}	[mm]	25	35	35	50	50	50	50	50



Number of profile mountings MUC as a function of weight force F and distance I between supports

In order to limit deflection in the case of large strokes, the drive may need to be supported. The following graphs are provided to determine the maximum permissible distance between supports as a function of the mounting position and the applied weight and normal forces.

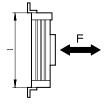
Horizontal mounting position

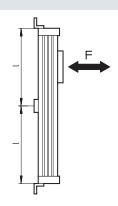


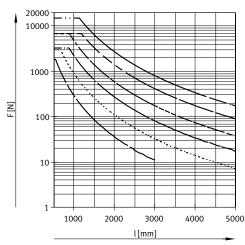
Number of profile mountings MUC as a function of weight force F and distance I between supports

In order to limit deflection in the case of large strokes, the drive may need to be supported. The following graphs are provided to determine the maximum permissible distance between supports as a function of the mounting position and the applied weight and normal forces.

Vertical mounting position











Example:

The drive DGC-25-1500 is subjected to a force of 300 N in a horizontal mounting position.

The drive has an overall length of: l = stroke length + L1 (see dimensions)

= 1500 mm + 200 mm

= 1700 mm

According to the graph, the max. distance between supports for the drive DGC-25 with a force of 300 N is 1300 mm.

In this example, profile mountings are required as the max. distance between supports (1300 mm) is smaller than the overall length of the drive (1700 mm).

Dimensions Download CAD data → www.festo.com Ø 18 ... 40 В2 B13 ВЗ B11 6 D4 5 _B9 유 EE 1 -[3] B1 View B D4 6 D4 6 18 Z B10

- + plus stroke length
- [1] Compressed air supply port options on 2 sides
- [2] Compressed air supply port options on 2 sides, for compressed air supply port at one end
- [3] Sensor slot for proximity sensor
- [4] Mounting hole for foot mounting HPC
- [5] Drilled hole for centring pin/sleeve
- [6] Thread for end stop



The linear drive is actuated at the right end or at both ends by default.

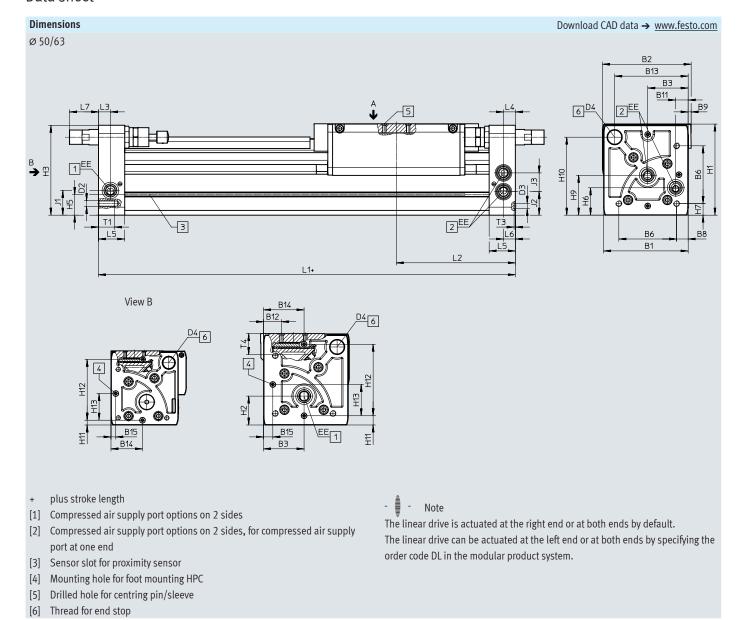
The linear drive can be actuated at the left end or at both ends by specifying the order code DL in the modular product system.

Ø	B1	B2	B3	B4	B5		B6	B7	В8		В9	B10	В	11	B12
[mm]					±0.0)5									
18	44.5	49.9	19.5	8.8	21		31	0.8	3.8		1	2.4	5	.5	15.5
25	59.8	66	30	12.65	30		42	1	6.65		1	3.5	9	0.3	21
32	73	79	38.5	5.7	63.	1	57.5	-	8.5		1.5	14	1.	4.9	18
40	91	98.5	45	17.2	55		65	-	12.2		2	8	1	6.5	24.8
	B13	D1/	l D4	D2			D4	EE	H1		H2	ш	1 ,	17	HE
Ø	B13	B14	D1 Ø	D2	D3 Ø	'	D4	EE	HI		H2	Н3	'	14	H5
[mm]			±0.05		H7	,							±(0.2	
18	39	19.5	2	M4	5		M12x1	M5	56.3		23.1	55	9	0.6	13.4
25	53.5	30	3	M5	9	1	M12x1	G1/8	68		29	67	13	3.65	15.8
32	66.5	38.5	3	M6	9		M14x1	G1/8	78.5		30	77	5	.7	17
40	80.5	45	4	M6	9	ı	M16x1	G1/4	99.5		41.5	97.5	1	7.2	25
Ø	H6	H7	Н8	Н9	H10	H11	H12	J1	1	12	J3	L1	1	L2	L3
[mm]						±0.15	±0.0	5							
18	20	4.6	2.4	25.2	46	8.5	30	20	1	6.5	11	150		74.5	5.7
25	24	7.65	3.5	29	55.5	12	35	26.	1 1	8.6	17	200		100	10.5
32	27.7	8.5	14	35.2	63.8	11.45	50	30		22	18.5	250	1	124.8	14.5
40	36.5	12.2	8	44	81.5	15	60	35		26	26	300		150	14.6
ø	L4	L5	l L6	1		L7		T1		T2	T3	1	T4	Stroi	ke tolerance
			1			L/		'1		12	'			3000	ic toterance
[mm]				PP	/	YSR	YSRW				+0.2				
18	5.8	15	5.5	0		15.9	19.4	9		2	3.1		17.1		0 2.5
25	10.6	24.5	10.6	0		12.5	15	17.5		2	2.1		20.5		
32	14.5	30.5	14.5	0		8.5	15.5	15		2	2.1		21.3		
40	14.6	33.5	14.6	0		12.8	21	20		3	2.1		30.7		



This product conforms to ISO 1179-1 and ISO 228-1.

Length tol	erance									
For stroke	[mm]	≤ 1000	≤ 2000	≤ 3000	≤ 4000	≤ 5000	≤ 6000	≤ 7000	≤ 8000	≤ 9000
L1	[mm]	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40



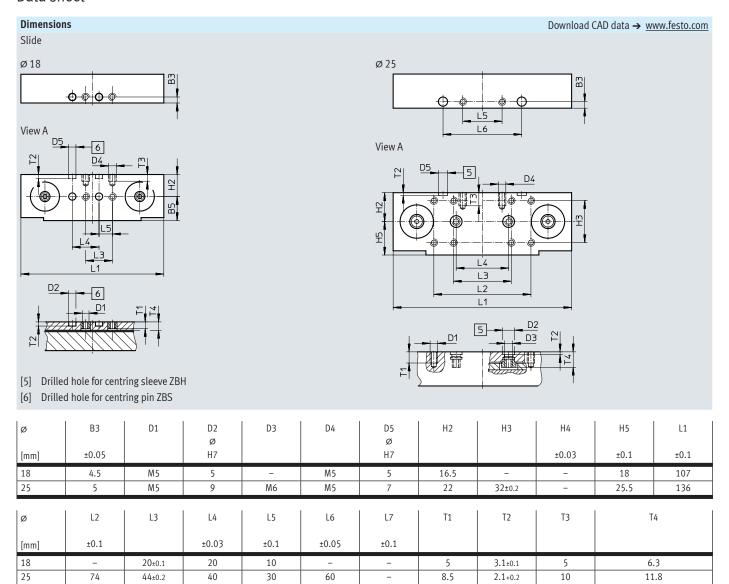
ø	B1	B2	В3	B6	B8	В9	B11	B12	B13	B14	B15	D2	D3	D4
, ,										±0.05			Ø H7	
[mm]										±0.05			П/	
50	113	126.5	60	81.6	12	-	21	24	97	52.8	8	M8	9	M22x1.5
63	142	149	68	97	19.5	5	21	30	123.5	68	15.5	M10	9	M26x1.5
ø	EE	H1	H2	H3	H5	H6	H7	H9	H10	H11	H12	H13	J1	J2
[mm]										±0.2	±0.05			
50	G1/4	124.5	38.5	122.5	29.3	36	12	53	104.5	8	100	52.8	30.5	30.5
63	G3/8	153.5	48.5	151	34.8	46	19.5	67	131	15.5	120	68	41.5	39.5
Ø	J3	L1	L2	L3	L4	L5	L6		L7	T:	1 T3	T4	Strok	e tolerance
1														

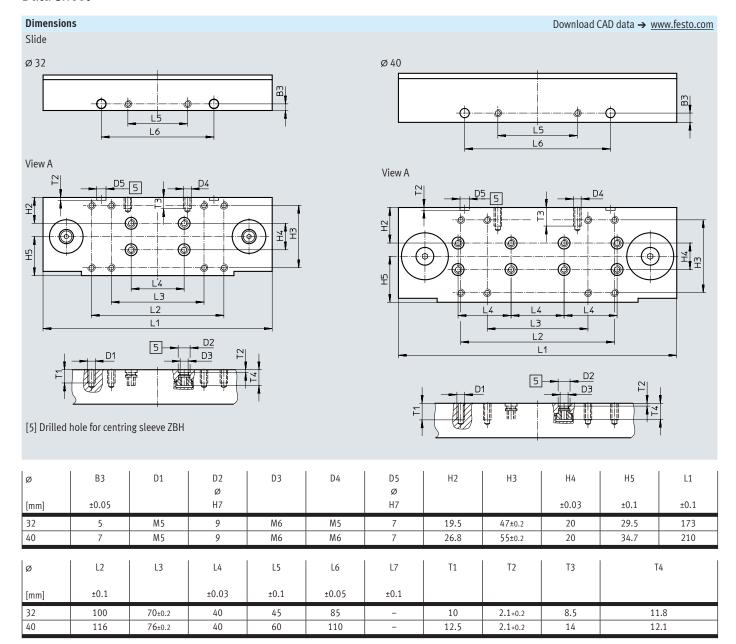
Ø	J3	L1	L2	L3	L4	L5	L6	L7		T1	T3	T4	Stroke tolerance	
[mm]								PPV	YSR	YSRW		+0.2		
50	28	350	175	17	17	41	17	0	31	36.3	24	2.1	30.4	0 2.5
63	31.5	400	200	20	20	44	20	0	38.3	48.3	27.5	2.1	36.2	

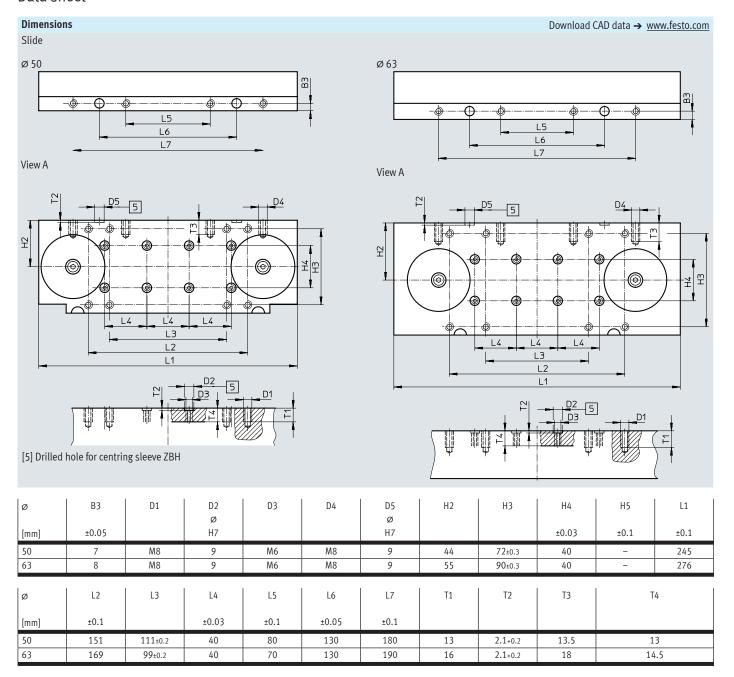
- 🖣 - Note

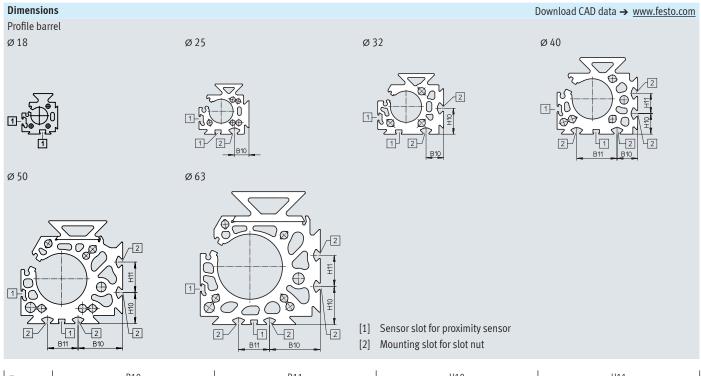
This product conforms to ISO 1179-1 and ISO 228-1.

Leng	Length tolerance											
For s	troke [mm] ≤ 1000		≤ 2000	≤ 3000	≤ 4000	≤ 5000						
L1	[mm]	+0.90	+1.10	+1.40	+1.50	+1.60						







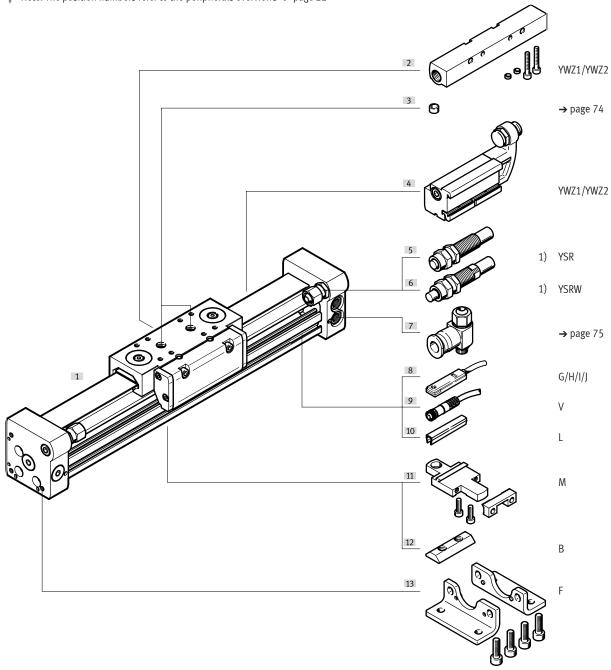


Ø	B10	B11	H10	H11
[mm]				
25	15.23	-	-	-
32	18	-	26.5	_
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

Ordering data – Modular product system

Order code

- $\mbox{\ensuremath{\$}}$ Note: End stops or shock absorbers must not be removed.
- $\mbox{$\frac{4}{3}$}$ Note: The position numbers refer to the peripherals overviews $\mbox{$\Rightarrow$}$ page 22



Ordering data – Modular product system

Ordering table Size		18	25	32	40	50	63	Condi-	Code	Enter
								tions		code
Module no.		532446	532447	532448	532449	532450	532451			
Function		Linear drive			DGC	DGC				
Piston diameter	[mm]	18	25 32 40 50 63						*	
Stroke	[mm]	1 3000								
Guide		Plain-bearing g	uide		★ -GF	-GF				
Cushioning		Pneumatic cus	nioning, adjustabl		★ -PPV					
			r, self-adjusting						-YSR	
			r, self-adjusting, p	rogressive					★ -YSRW	
Position sensing	sensing Via proximity sensor								★ -A	-A
Compressed air supp	oly port	At the right end	or at both ends						*	
		At the left end	or at both ends						-DL	
Lubrication		Standard							*	
			proved for use in f	[1]	-H1					
EU certification		Without							*	
		II 3GD		[2]	-EX2					
	:	II 2G	:	[2]	-EX3					
Accessories		Enclosed separ	ately (can be retro		ZUB-	ZUB-				
Foot mounting		1							F	
Profile mounting		19	_						M	
Slot nut for mounting		-	1 9						В	
Proximity sensor	2.5 m cable	1 9							G	
	Plug M8	1 9							Н	
Proximity sensor,	2.5 m cable	1 9							l	
contactless, PNP	Plug M8	1 9							J	
Connecting cable M8, 2.5 m 1 9								V		
Slot cover for sensor		1 9			L					
Mechanical end-pos	ition	Without								
limiter			osition, at one end	[3]	YWZ1					
			osition, at both en	[3]	YWZ2					
Operating instruction	ns	Express waiver	– no operating in	structions to be i	ncluded (already	available)			-0	

 [1]
 H1
 Not with cushioning YSR, YSRW

 [2]
 EX2, EX3
 Not with proximity sensor G, H, I, J, connecting cable V

 [3]
 YWZ1, YWZ2
 Only with cushioning YSR or YSRW

Peripherals overview

- $\mbox{$\frac{1}{2}$}$ - Note: End stops or shock absorbers must not be removed. 4 1 10 15

Peripherals overview

Varian	ts and accessories	1	Tellina.	
	Type/order code	For piston diam.	Description	→ Page/Internet
[1]	Linear drive DGC-KF	8 63	Linear drive without accessories, with recirculating ball bearing guide	42
[2]	Intermediate-position module Z1/Z2/Z3	25, 32, 40	Enables up to three intermediate positions	72
[3][6]	Mechanical end-position limiter YWZ	18 63	For variable end-position adjustment, e.g. for format adjustments	70
[4]	Centring pin/sleeve ¹⁾ ZBS/ZBH	8 63	For centring loads and attachments on the slide	74
	Centring pin/sleeve ZBS/ZBH	8 63	For centring the drive without foot mountings (user-specific)	74
[5]	Clamping unit 1H-PN	25, 32, 40, 50	For holding loads	45
[7]	Shock absorber YSR	8 63	Self-adjusting, hydraulic shock absorber with spring return and linear cushioning characteristics.	62
[8]	Shock absorber YSRW	8 63	Self-adjusting, hydraulic shock absorber with spring return and progressive cushioning characteristics	62
[9]	One-way flow control valve GRLA	8 63	For regulating speed	75
[10]	Proximity sensor G/H/I/J	8 63	For sensing the slide position	75
[11]	Connecting cable V	8 63	For proximity sensor	76
[12]	Slot cover L	18 63	For protecting against contamination and securing the proximity sensor cable in place	74
[13]	Profile mounting M	8 63	Simple and precise mounting option via dovetail connection.	66
[14]	Slot nut B	25 63	For mounting attachments	74
[15]	Foot mounting F	8 63	For mounting on the end cap	64
-	Cushioning P	8, 12	Non-adjustable, elastic cushioning. Used only at low speeds.	62
-	Cushioning PPV	18 63	Adjustable, pneumatic end-position cushioning. Used at medium speeds.	62

¹⁾ Included in the scope of delivery of the drive

Linear drives DGC-KF, with recirculating ball bearing guide

Data sheet







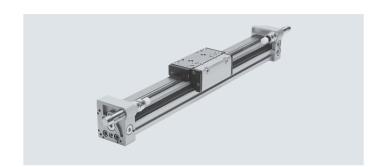
Diameter

8 ... 63 mm



Stroke length

1 ... 8500 mm



General technical data									
Piston diameter		8	12	18	25	32	40	50	63
Design		Rodless drive							
Moment compensator principle		Slotted cylind	er, mechanically	coupled					
Guide		External recirc	ulating ball bear	ing guide					
Mode of operation		Double-acting							
Stroke	[mm]	1 1300	1 1900	1 3000	1 8500			1 5000	
Pneumatic connection		M5	•		G1/8		G1/4		G3/8
Cushioning → page 46									
DGCP		Non-adjustab	le at both ends	-					
DGCPPV		-		Adjustable at	t both ends				
DGCYSR		Self-adjusting	at both ends						
Cushioning length	[mm]	_		16.5	15.5	17.5	29.5	29.8	31.1
with cushioning PPV									
Max. speed	[m/s]	1	1.2	3					
Repetition accuracy	[mm]	0.02 (with sho	ock absorber YSR	/YSRW)					
Position sensing		Via proximity	sensor						
Type of mounting		Profile mounti	ng						
		Foot mounting	3						
		Direct mountii	ng						
Mounting position		Any							

- 🛊 -

- Note

This product conforms to ISO 1179-1 and ISO 228-1.

Operating and environmental condi	Operating and environmental conditions											
Piston diameter		8	12	18	25	32	40	50	63			
Operating pressure	[MPa]	0.25 0.8		0.2 0.8			0.15 0	.8				
	[bar]	2.5 8		2 8			1.5 8					
	[psi]	36.25 116		29 116		-	21.75	116				
Operating medium		Compressed a	air to ISO 8573	3-1:2010 [7:-:-]								
Note on operating/		Lubricated op	eration possib	ble (in which cas	e lubricated ope	ration will alway	s be required)					
pilot medium												
Ambient temperature ¹⁾	[°C]	-10 +60										
Food-safe ²⁾		-		→ supple	mentary inform	ation on materia	ls					
Corrosion resistance class CRC ³⁾		1										

Note operating range of proximity sensors

Additional information is available at www.festo.com/sp → Certificates.

³⁾ Corrosion resistance class CRC 1 to Festo standard FN 940070

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

Forces [N]								
Piston diameter	8	12	18	25	32	40	50	63
Theoretical force at 0.6 MPa (6 bar , 87psi)	30	68	153	295	483	754	1178	1870
Impact energy at the end positions	→ page 46							

ATEX ¹⁾	
Explosion-proof ambient temperature [°C]	-10°C ≤ Ta ≤ +60°C
CE marking	To EU Explosion Protection Directive (ATEX)
(see declaration of conformity)	
EX2 certification	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex h IIC T4 Gc X
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex h IIIC T120°C Dc X
EX3 certification	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex h IIC T4 Gb X

¹⁾ Note the ATEX certification of the accessories.

Weight [g]								
Piston diameter	8	12	18	25	32	40	50	63
DGC								
Basic weight with 0 mm stroke	225	391	975	2113	2837	6996	13342	22220
Additional weight per 10 mm stroke	11	16	31	49	74	117	153	236
Moving mass	77	149	331	732	1146	2330	4511	8225
DGC1H-PN – With clamping unit				,				
Basic weight with 0 mm stroke	-	-	-	3134	4272	12009	19394	-
Additional weight per 10 mm stroke	-	-	-	49	74	117	153	-
Moving mass	-	-	-	1405	2059	5494	8411	-

Adjustable end-position range d [mm]





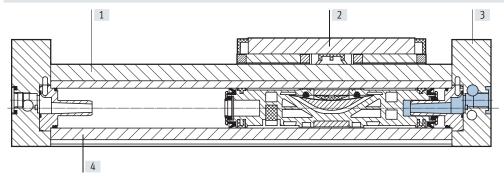
- Note

The permissible kinetic energy decreases if the stroke is reduced with PPV adjustable cushioning at both ends.

Piston diameter	8	12	18	25	32	40	50	63
Cushioning								
DGCP/PPV	11.3 16.3	12.7 17.7	13.8 15.8	21.1 25.1	25.2 30.2	28.7 33.7	28.7 33.7	38.8 43.8
DGCP/PPV-GP	-	-	16.9 18.9	23.6 27.6	25.2 30.2	34.7 39.7	-	-
DGCYSR/YSRW	12.8 22.8	14 24	14.5 34.5	22.5 47.5	27.3 52.3	31 56	31 56	41 76

Materials

Sectional view

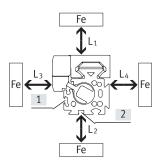


Linea	ar drives	
[1]	Guide rail	High-alloy steel
[2]	Slide	High-alloy steel
[3]	End cap	Anodised aluminium
[4]	Cylinder barrel	Anodised aluminium
-	Piston seal	Polyurethane
-	Sealing band/cover strip	Polyurethane
	Note on materials	RoHS-compliant, free of copper and PTFE

Influence of ferritic materials on proximity sensors

Ferritic materials (steel parts or sheet metal) in the immediate vicinity of the proximity sensors can cause sensing malfunctions. The following safety distances must be observed.

The distance depends on the position of the proximity sensor (see [1] and [2]).

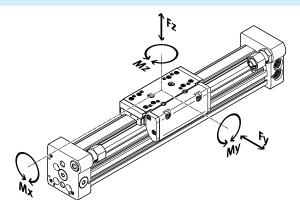


Piston diameter			8	12	18	25	32	40	50	63
D:	[4]									
Distance L1	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	-	-	0	0	0	0	0	0
Distance L2	[1]	[mm]	20	10	10	10	0	0	0	0
	[2]	[mm]	-	-	25	25	25	25	25	25
Distance L3	[1]	[mm]	30	25	25	25	25	25	25	25
	[2]	[mm]	-	-	10	10	0	0	0	0
Distance L4	[1]	[mm]	0	0	0	0	0	0	0	0
	[2]	[mm]	_	-	0	0	0	0	0	0

Characteristic load values

The indicated forces and torques refer to the centre of the slide surface.

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



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

$$\frac{Fy}{Fy_{max.}} + \frac{Fz}{Fz_{max.}} + \frac{Mx}{Mx_{max.}} + \frac{My}{My_{max.}} + \frac{Mz}{Mz_{max.}} \leq 1$$

Permissible forces and to	Permissible forces and torques											
Piston diameter		8	12	18	25	32	40	50	63			
Fy _{max} .	[N]	300	650	1850	3050	3310	6890	6890	15200			
Fz _{max} .	[N]	300	650	1850	3050	3310	6890	6890	15200			
Mx _{max} .	[Nm]	1.7	3.5	16	36	54	144	144	529			
My _{max} .	[Nm]	4.5	10	51	97	150	380	634	1157			
Mz _{max} .	[Nm]	4.5	10	51	97	150	380	634	1157			

Technical data — Clamping unit					Dimensions → page 58		
Size		25	32	40	50		
Pneumatic connection		M5	M5	M5	M5		
Clamping type		Clamping via spring force, compressed air to release					
Static holding force	[N]	320	500	1200	1200		
Max. number of emergency braking operations ¹⁾		-	-	750	750		
at reference energy	[J]			35	35		
Number of clamping operations under rated load	[millions of	0.45	0.55	0.05	0.05		
	switching cycles]						

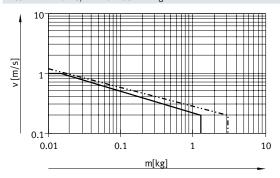
 $^{1) \}quad \hbox{Emergency braking refers to braking the payload if the drive axis loses power.} \\$

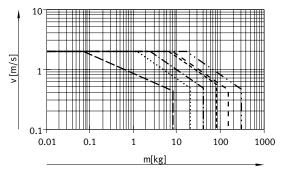
Operating and environmental condition	s – Clamping unit	
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]
Operating pressure		
Clamping unit open	[bar]	4.5 8
Clamping unit closed	[bar]	Unpressurised
Ambient temperature	[°C]	-10 +60

Maximum permissible piston speed v as a function of payload m and distance r_{max} from the centre of mass

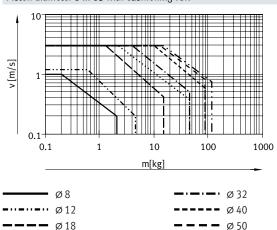
Piston diameter 8/12 with cushioning P

Piston diameter 18 ... 63 with cushioning PPV

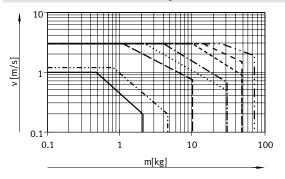




Piston diameter 8 ... 63 with cushioning YSR



Piston diameter 8 ... 63 with cushioning YSRW



- 🚪 - Note

These specifications represent the maximum values that can be achieved. In practice, these values can fluctuate dependent on the position of the payload and mounting position.

Operating range of the cushioning

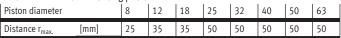
Ø 25

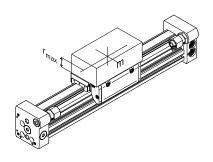
The end-position cushioning must be adjusted to ensure jerk-free operation. If the operating conditions are outside the permissible range, the moving mass must be cushioned using suitable equipment (shock absorbers, stops, etc.), preferably at the centre of mass.



To avoid distortion in the slide, the bearing surfaces of the attachments must maintain a flatness of at least 0.01 mm.

Data for horizontal mounting position:

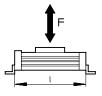


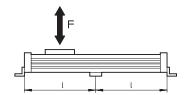


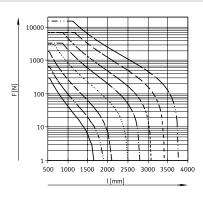
Number of profile mountings MUC as a function of weight force F and distance I between supports

In order to limit deflection in the case of large strokes, the drive may need to be supported. The following graphs are provided to determine the maximum permissible distance between supports as a function of the mounting position and the applied weight and normal forces.

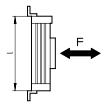
Horizontal mounting position

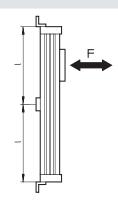


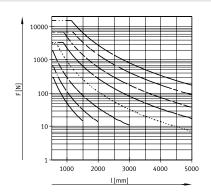




Vertical mounting position









 Ø 32
 Ø 40
 Ø 50
 Ø 63

Example:

The drive DGC-25-1500 is subjected to a force of 300 N in a horizontal mounting position.

The drive has an overall length of:

- l = stroke length + L1
 (see dimensions)
 - = 1500 mm + 200 mm
 - = 1700 mm

According to the graph, the max. distance between supports for the drive DGC-25 with a force of 300 N is 1300 mm.

In this example, profile mountings are required as the max. distance between supports (1300 mm) is smaller than the overall length of the drive (1700 mm).

Central lubrication

The lubrication adapters enable the guide of the linear drive DGC-KF to be permanently lubricated in applications in humid or wet ambient conditions using semi or fully automatic relubrication devices.

- For piston diameters 25, 32, 40, 63
- The modules are suitable for oils and greases.
- The dimensions of the linear drive DGC-KF are the same with and without central lubrication modules.
- Both lubrication adapters must be connected
- There are three connection options on each side
- Can be used in combination with:
 - Standard slide GK
 - Additional slide KL, KR
- Cannot be used in combination with:
 - Protected recirculating ball bearing guide GP

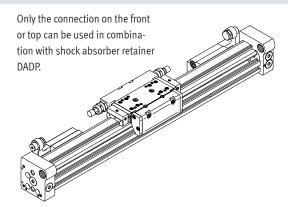
Slide dimensions

→ page 56

Order code C in the modular product system → page 63

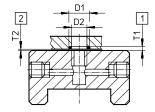
Connection options

Only the connection at the rear or on the top can be used in combination with shock absorbers in the end caps.



Connection option for customer design

The drawing on the right shows the connection option on the top lubrication interface using a customer design.



- D1 8+0.2 mm
- D2 6 mm
- T1 0.6_{-0.05} mm
- T2 0.1^{+0.2} mm
- O-ring diameter 6x1 mm (DIN 3771)
- [1] Slot depth for O-ring
- [2] Required air gap

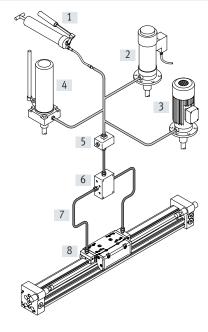
Additional dimensions → page 56

Structure of a central lubrication system

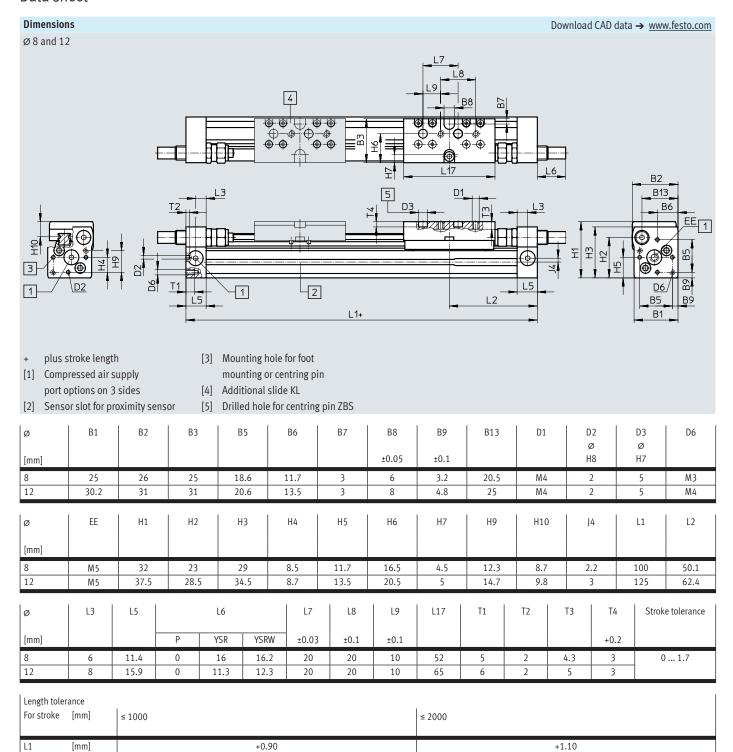
A central lubrication system requires various additional components. The illustration shows different options (using a hand pump, pneumatic container pump or electric container pump) required as a minimum for designing a central lubrication system. Festo does not sell these additional components; however, they can be obtained from the following companies:

- Lincoln
- Bielomatik
- SKF (Vogel)

Festo recommends these companies because they can supply all the necessary components.



- [1] Hand pump
- [2] Pneumatic container pump
- [3] Electric container pump
- [4] Manually operated container pump
- [5] Nipple block
- [6] Distributor block
- [7] Tubing or piping
- [8] Fittings



Profile barrel

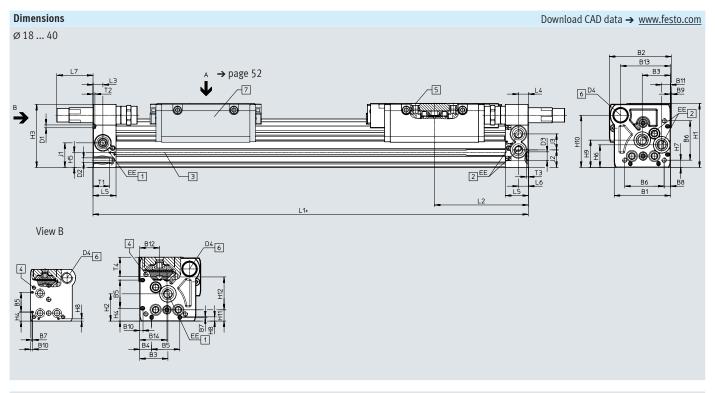
Ø8

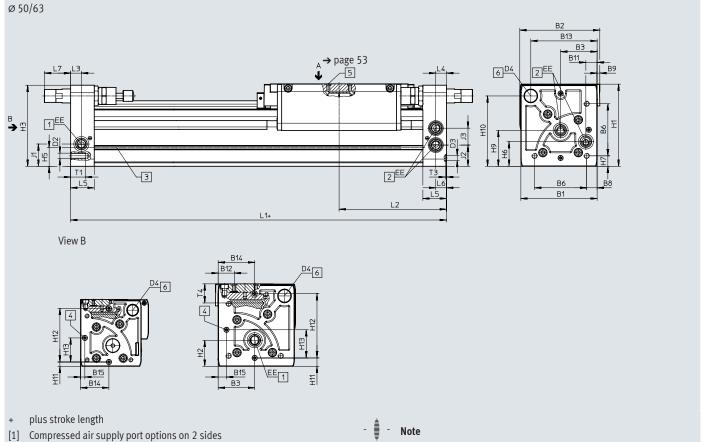
Ø 12





[1] Sensor slot for proximity sensor





[2]

[3]

[4]

[5]

[7]

port at one end

Thread for end stop

Additional slide

Sensor slot for proximity sensor

Mounting hole for foot mounting HPC Drilled hole for centring pin/sleeve

Compressed air supply port options on 2 sides, for compressed air supply

The linear drive is actuated at the right end or at both ends by default.

order code DL in the modular product system.

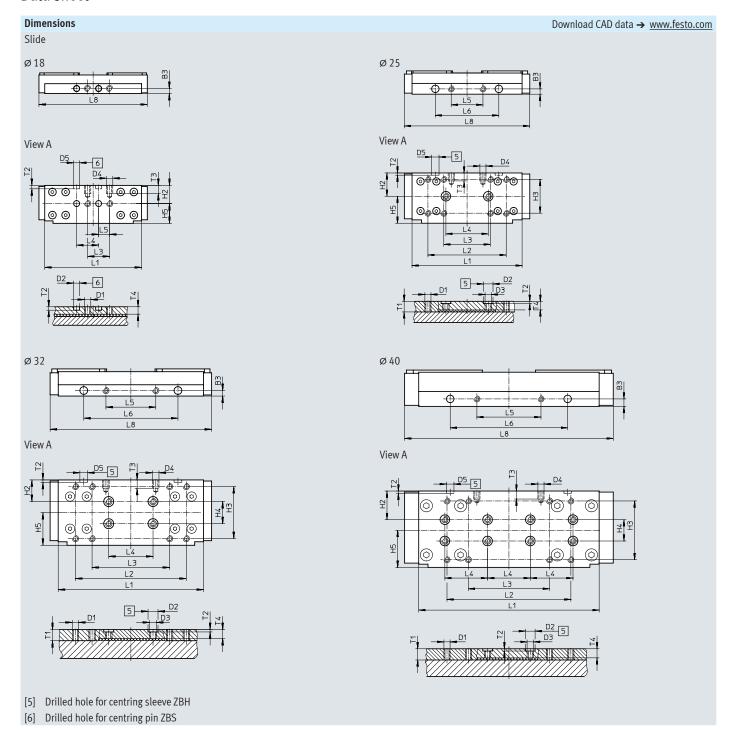
The linear drive can be actuated at the left end or at both ends by specifying the

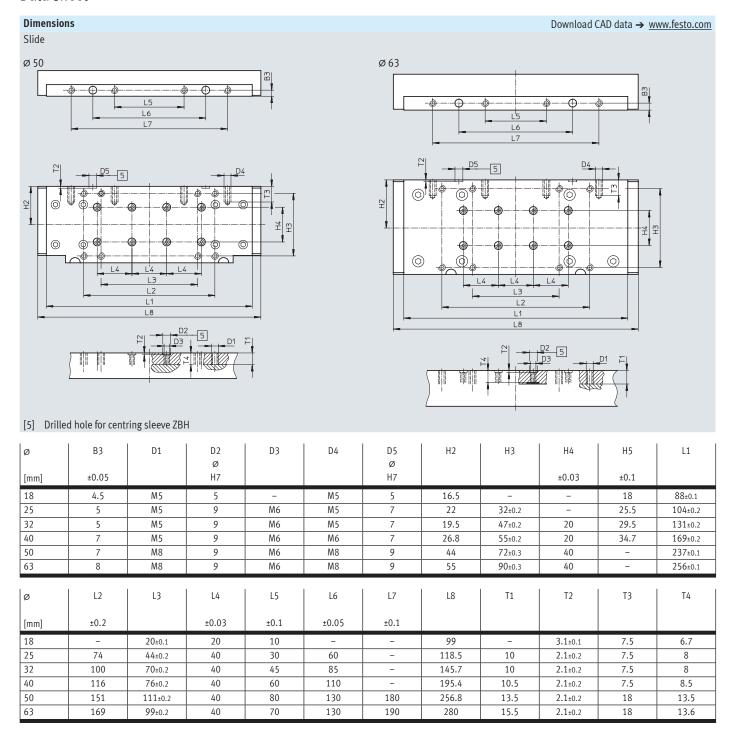
Ø	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11
[mm]			±0.05	±0.1	±0.05			±0.1			
18	44.5	49.9	19.5	8.8	21	31	0.8	3.8	1	2.4	5.5
25	59.8	66	30	12.65	30	42	1	6.65	1	3.5	9.3
32	73	79	38.5	5.7	63.1	57.5	-	8.5	1.5	14	14.9
40	91	98.5	45	17.2	55	65	_	12.2	2	8	16.5
50	113	126.5	52.8	-	-	81.6	_	12	_	-	21
63	142	149	68	-	-	97	-	19.5	5	-	21
ø	B12	B13	B14	B15	D1 Ø	D2	D3	D4	EE	H1	H2
[mm]					±0.05		Ø H7				
18	15.5	39	19.5	-	2	M4	5	M12x	1 M5	56.3	23.1
25	21	53	29	-	3	M5	9	M16x	1 G1/8	68	29
32	18	65	38.5	-	3	M6	9	M16x	1 G1/8	78.5	30
40	24.5	80.5	45	-	4	M6	9	M22x1	.5 G1/4	99.5	41.5
50	24	97	60	8	-	M8	9	M22x1	.5 G1/4	124.5	38.5
63	30	123.5	68	15.5	-	M10	9	M26x1	.5 G3/8	153.5	48.5
Ø	Н3	H4	Н5	Н6	H7	Н8	H9	H10	H11	H12	H13
[mm]		±0.2								±0.05	
18	55	9.6	13.4	20	4.6	2.4	25.2	46	8.5±0.1	5 30	-
25	67	13.65	15.8	24	7.65	3.5	29	55.5	12±0.1	5 35	-
32	77	13.65	17	27.7	8.5	14	35.2	63.8	11.45±0.	.15 50	-
40	97.5	17.2	25	36.5	12.2	8	44	81.5	15±0.1		-
50	122.5	-	29.3	36	12	-	53	104.5		100±0.0!	
63	151	-	34.8	46	19.5	-	67	131	15.5±0.	.2 120±0.05	68
ø	J1	J2	J3		L1			L2		L3	L4
[mm]				KF	KF-GP	1H-PN	KF	KF-GF	P 1H-PN	1	
18	20	16.5	11	150	157	-	74.5	78	_	5.7	5.8
25	26.1	18.6	17	200	205	271	100	102.		10.5	10.6
32	30	22	18.5	250	250	320.5	124.8				14.5
40	35	26	26	300	312	458	150	156		14.6	14.6
50	30.5	30.5	28	350	-	555.8	175	_	_	17	17
63	41.5	39.5	31.5	400	-	-	200	-	-	20	20
ø	L5	L6	1	L7			T1	T2	Т3	T6	Stroke tolerance
			PPV	YSR	YSR		.				
[mm]				151					+0.2		
18	15	5.5	0	29.9	32.	4	9	2	3.1	15	0 2.5
25	24.5	10.6	0	35.6	38.		7.5	2	2.1	17.3	1
32	30.5	14.5	0	19.5	28		15	2	2.1	20	1
40	33.5	14.6	0	38.5	43.		20	3	2.1	25.7	1
50	41	17	0	31	36.		24	-	2.1	28.75	1
63	44	20	0	38.3	48.	3 2	7.5	-	2.1	36.1	1



This product conforms to ISO 1179-1 and ISO 228-1.

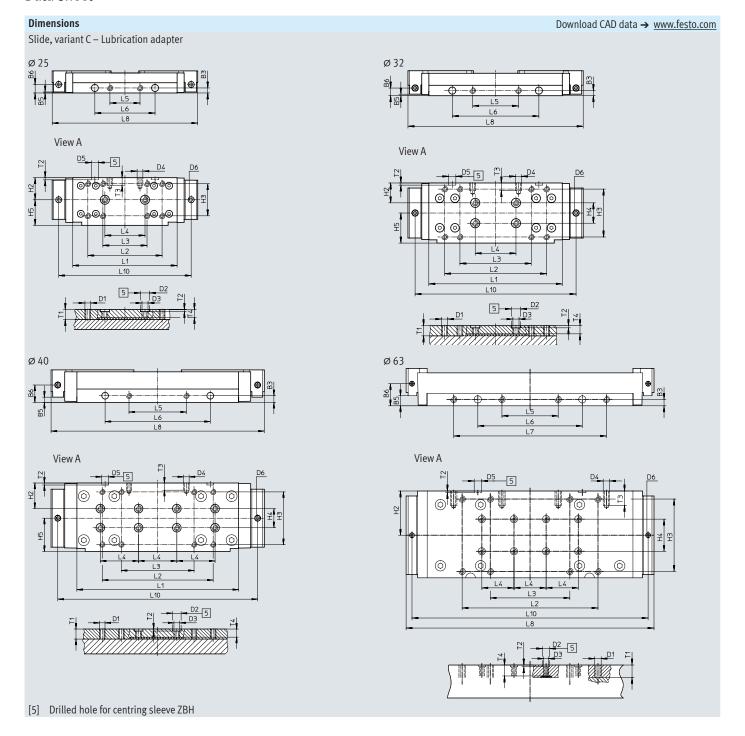
Length tole	Length tolerance												
For stroke	[mm]	≤ 1000	≤ 2000	≤ 3000	≤ 4000	≤ 5000	≤ 6000	≤ 7000	≤ 8000	≤ 9000			
L1	[mm]	+0.90	+1.10	+1.40	+1.50	+1.60	+1.70	+2.20	+2.30	+2.40			





Dimensions Download CAD data → www.festo.com Slide, variant GP – Protected recirculating ball bearing guide Ø 18 Ø 25 View A View A **@** Ø 32 Ø 40 View A View A [5] Drilled hole for centring sleeve ZBH [6] Drilled hole for centring pin ZBS

ø [mm]	B3 ±0.05	D1	D2 Ø H7	D3	D4	D5 Ø H7	H2	Н3
18	4.5	M5	5	-	M5	5	16.5	-
25	5	M5	9	M6	M5	7	22	32±0.2
32	5	M5	9	M6	M5	7	19.5	47±0.2
40	7	M5	9	M6	M6	7	26.8	55±0.2
ø	H4	H5	L1	L2	L3	L4	L5	L6
[mm]	±0.03	±0.1		±0.2		±0.03	±0.1	±0.05
18	-	18	88±0.1	-	20±0.1	20	10	-
25	-	25.5	104±0.2	74	44±0.2	40	30	60
32	20	29.5	131±0.2	100	70±0.2	40	45	85
40	20	34.7	169±0.2	116	76±0.2	40	60	110
Ø	L7	L8	L9	T1	T2	Т3	T	⁻ 4
[mm]	±0.1							
18	-	99	120	-	3.1±0.1	7.5	6	.7
25	-	118.5	144	10	2.1±0.2	7.5	8	
32	-	145.7	173	10	2.1±0.2	7.5	8	
40	-	195.4	231	10.5	2.1±0.2	7.5	8	.5



Ø	В3	B5	В6	D1	D2	D3	D4	D5	D6	H2	Н3	H4	H5
					Ø			Ø					
[mm]	±0.05	±0.05			H7			H7				±0.03	±0.1
25	5	1	8.5	M5	9	M6	M5	7	M6x1	22	32±0.2	-	25.5
32	5	1.5	7.5	M5	9	M6	M5	7	M6x1	19.5	47±0.2	20	29.5
40	7	18.2	18.2	M5	9	M6	M6	7	M6x1	26.8	55±0.2	20	34.7
63	8	12.5	27.5	M8	9	M6	M8	9	M6x1	55	90±0.3	40	-
Ø	L1	L2	L3	L4	L5	L6	L7	L8	L10	T1	T2	T3	T4
[mm]		±0.2	±0.2	±0.03	±0.1	±0.05	±0.1				±0.2		
25	104±0.2	74	44	40	30	60	-	145	132	10	2.1	7.5	8
32	131±0.2	100	70	40	45	85	-	172	158	10	2.1	7.5	8
40	169±0.2	116	76	40	60	110	-	224.4	210.4	10.5	2.1	7.5	8.5
63	256±0.1	169	99	40	70	130	190	308.4	293.8	15.5	2.1	18	13.6

Profile barrel

Ø 18

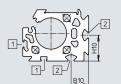
Ø 25

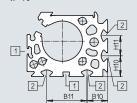
ø 32

Ø 40

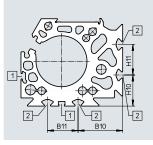


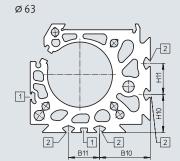






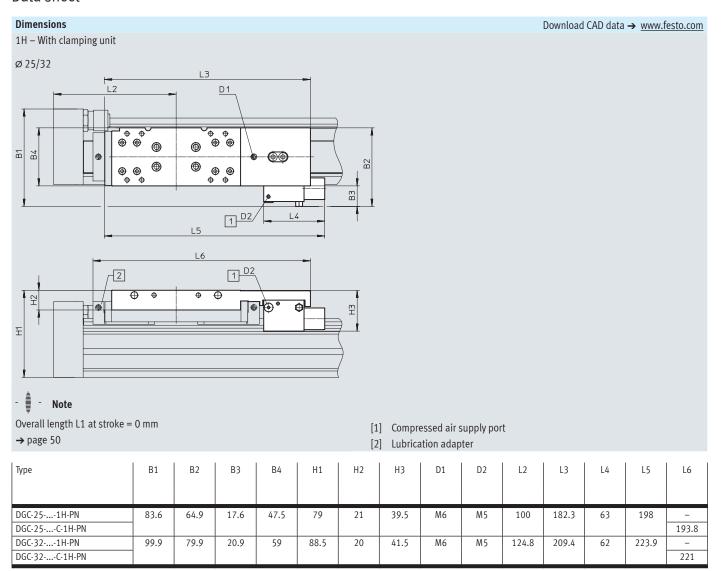
Ø 50

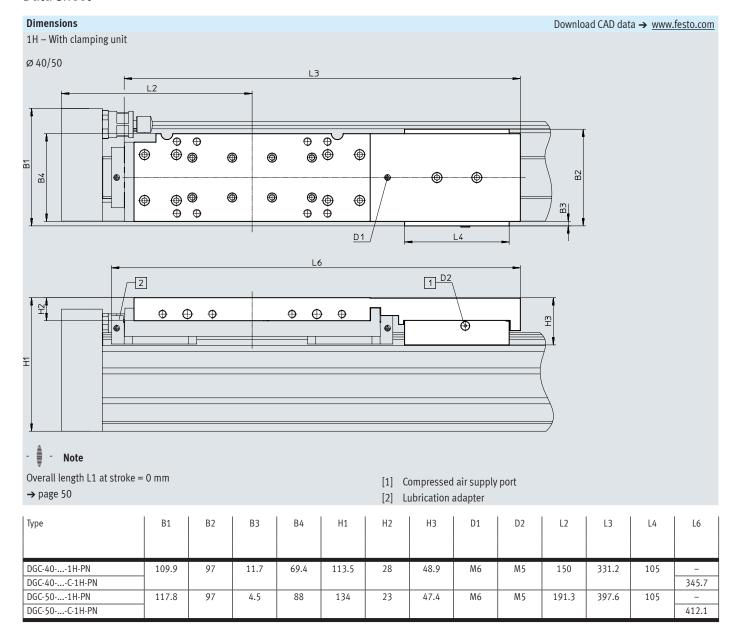




- [1] Sensor slot for proximity sensor
- [2] Mounting slot for slot nut

Ø	B10	B11	H10	H11
[mm]				
25	15.23	-	-	-
32	18	-	26.5	-
40	20.5	40	20.5	20
50	43.8	30	30.5	30
63	49	30	37	30

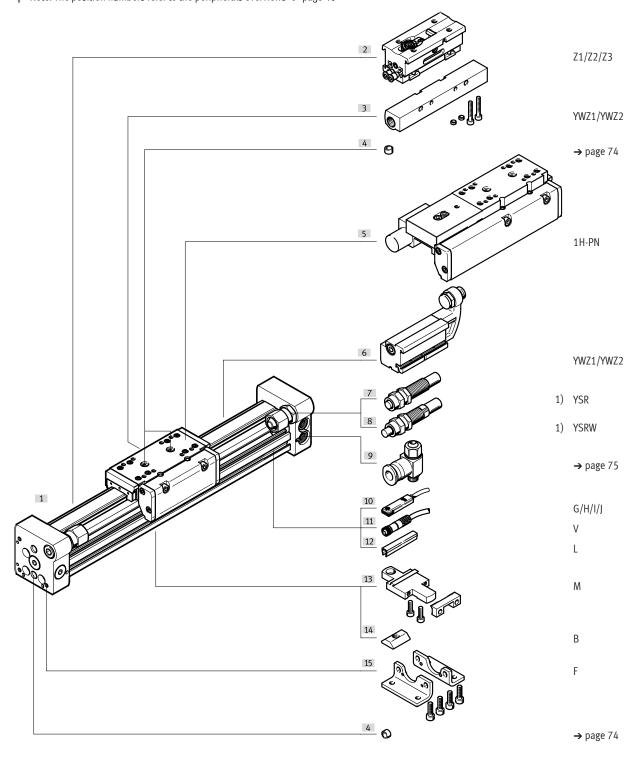




Ordering data – Modular product system

Order code

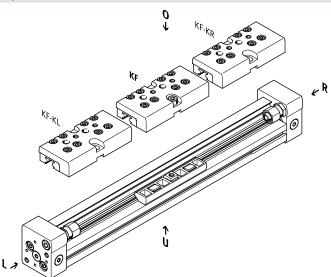
- $\mbox{\ensuremath{\$}}$ Note: End stops or shock absorbers must not be removed.
- $\mbox{$\frac{1}{2}$}$ Note: The position numbers refer to the peripherals overviews $\mbox{$\Rightarrow$}$ page 40



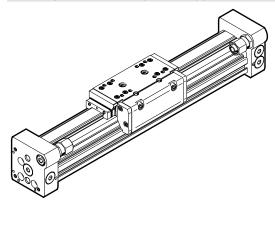
Ordering data – Modular product system

Order code

KL/KR - With additional slide



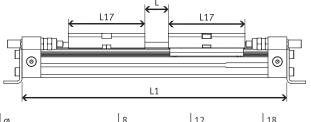
GP – With protected recirculating ball bearing guide



Working stroke reduction when ordering an additional slide KL or KR

For a linear drive DGC with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides.

Assuming: DGC-12-500-... L = 20 mm L17 = 65 mm



Ø [n	nm]	8	12	18	25	32	40	50	63
Ľ:	17	52	65	99	118.5	145.7	195.4	256.8	280

The working stroke is reduced to 415 mm = 500 mm - 20 mm - 65 mm

Linear drives DGC-KF, with recirculating ball bearing guide

Ordering data - Modular product system

Ordering table Size	8	12	18	25	32	40	50	63	Condi- tions	Code	Enter code
Module no.	530906	530907	532446	532447	532448	532449	532450	532451			
Function	Linear drive				_	_		_		DGC	DGC
Piston diameter [mm]	8	12	18	25	32	40	50	63		★	
Stroke [mm]	1 1300	1 1900	1 3000	1 8500			1 5000	•		★	
Guide	Recirculating	ball bearing	guide	de						★ -KF	-KF
Cushioning	Elastic cushi plates at bot									★ -P	
- Pneumatic cushioning, adjustable at both ends							★ -PPV				
	Shock absor	ber, self-adjus		-YSR	İ						
	Shock absor	ber, self-adjus	sting, progress	ive						★ -YSRW	
Position sensing	Via proximity	/ sensor			★ -A	-A					
Compressed air supply port	At the right of	end or at both	ends							*	
	_	-	At the left er	nd or at both e	nds					-DL	
Slide	_	-	Protected re	circulating ba	ll bearing guid	de	-	-	[1]	-GP	
Lubrication	-	-	Standard							*	
	-	-	Lubrication	approved for ι	use in food ap	plications			[2]	-H1	
Lubrication function	Standard									*	
	-	-	-	Lubrication	adapter	1		1	[3]	-C	
Additional slide on left		lide, standard	<u></u>						[4]	-KL	
Additional slide on right	Additional s	lide, standard	on right						[4]	-KR	
Clamping unit	-	-	-	Without				-		*	
	-	-	-	- 1-channel -					[5]	-1H	
Actuation type	-	-	– Without –					[5]	★ -PN		
	-	Tricultatio									
EU certification	Without										
	II 3GD									-EX2	
	II 2G	II 2G								-EX3	

[1] GP Not with cushioning YSR, YSRW

Not with additional slide KL, KR

Not with protected version GP, cushioning YSR, YSRW or clamping unit 1H

[3] C Not with slide GP

[2] H1

For size 50, only with clamping unit 1H

[4] KL, KR For a linear drive DGC with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides.

Not with cushioning PPV

[5] 1H, PN Not with intermediate-position module Z1, Z2, Z3; end-position limiter YWZ1, YWZ2; protected version GP; additional slide KL, KR or lubrication H1

only with cushioning YSRW

1H only with PN

[6] EX2, EX3 Not with protected recirculating ball bearing guide GP, lubrication adapter C, clamping unit 1H-PN, proximity sensor G, H, I, J, connecting cable V, intermediate-position module Z1, Z2, Z3

Ordering data – Modular product system

Ordering table												
Size		8	12	18	25	32	40	50	63	Condi- tions	Code	Enter code
Accessories		Enclosed :	Enclosed separately (can be retrofitted)									ZUB-
Foot mounting		1	1								F	
Profile mounting		1 9									M	
Slot nut for mounting slo	t	-	-	-	1 9						В	
Proximity sensor	2.5 m cable	m cable 1 9							G			
	Plug M8	1 9	1 9							Н		
Proximity sensor,	2.5 m cable	1 9	19								l	
contactless, PNP	Plug M8	1 9									J	
Connecting cable	M8, 2.5 m	1 9									V	
Slot cover for sensor slot		-	-	19							L	
Mechanical end-position	limiter	-	1-	Variable e	nd position,	at one end				[7]	YWZ1	
		-	-	Variable e	nd position,	at both end	S			[7]	YWZ2	
Intermediate-position m	odule	-	-	-	1 interme	diate positio	n	-	-	[8]	-Z1	
			-	-	2 interme	diate positio	ns	-	-	[8]	-Z2	
				-	3 interme	diate positio	ns	-	-	[8]	-Z3	
Operating instructions	perating instructions			Express waiver – no operating instructions to be included (already available)							-0	

^[7] YWZ1, YWZ2 Only with cushioning YSR or YSRW

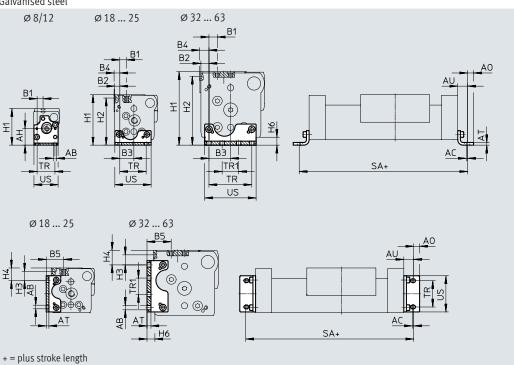
^[8] YWZ1, YWZ2 Only with cushioning YSR or YSRW and mechanical end-position limiter YWZ1 or YWZ2

Foot mounting HPC

(order code: F)



Material: Galvanised steel



Dimensions	and ordering data									
For diam.	AB	AC	AH	AO	AT	AU	В	B1		
	Ø									
[mm]							G	GF/KF		
8	3.4	1.5	16.7	3	2	9	6	6	_	
12	4.5	2	18.5	4.5	2	11.5	5.4	5.4	-	
18	5.5	2	-	6.75	3	13.25	15	11.2	4.3	
25	5.5	2	-	9	4	15	12.5	13.35	7.65	
32	6.6	2	-	10	5	19	11.5	9	9	
40	6.6	2	-	10	6	20	7.6	12.6	12.2	
50	9	3	-	11	8	25	12.5	12.5	11.5	
63	11	3	-	13.5	8	28	17.5	17.5	12.5	

For diam.	В3	В	4	В	5	H1		
[mm]		GF	KF	G	GF/KF	G	GF/KF	
8	-	-	-	-	-	37	37	
12	-	-	-	-	-	42.5	42.5	
18	15.2	-	5.3	27	23.2	57.5	64	
25	21.35	-	8.65	28.65	29.5	67	76.5	
32	29.5	-	10.5	29.5	27	82	87.5	
40	32.8	-	14.2	31.8	36.8	100	111.5	
50	48.5	11.5	11.5	41	41	137	141.5	
63	55.5	6.5	17.5	49	49	159	172.5	

Dimensions	and ordering data						
For diam.	H2	Н3	Н	4	H6	S	A
				1			
[mm]	GF/KF	GF/KF	G	GF/KF		G/GF/KF	KF-GP
8	-	-	-	-	5	118_0.2	-
12	-	-	-	-	5	148_0.2	-
18	59.5	16	14	21.2	7.7	176.5_0.2	183.5-0.2
25	71.5	14.35	9.85	19.35	8.5	230_0.2	235_0.2
32	82.5	8	7.5	13	9	288_0.2	288_0.2
40	104.5	15.3	10.8	22.3	12	340_0.2	352 _{-0.2}
50	134.5	23.4	25.9	30.4	17	400_0.2	-
63	164.5	22	24	30	19	456 _{-0.2}	-

For diam.	TR	TR1	US	Weight	Part no.	Type ¹⁾
[mm]	±0.1	±0.1		[g]		
8	18	-	24.4	25	526385	HPC-8
12	20	-	29.6	41	526388	HPC-12
18	30	-	38.6	58	533667	HPC-18
25	40	-	55	131	533668	HPC-25
32	56.5	19.5	68	239	533669	HPC-32
40	65	25	78	348	533670	HPC-40
50	82.6	47.4	102	754	545236	HPC-50
63	111	39	133	1245	545237	HPC-63

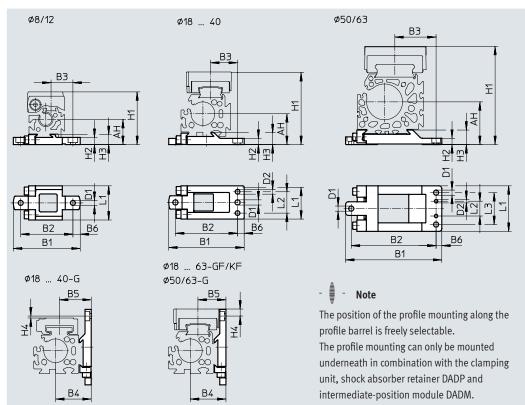
¹⁾ Suitable for ATEX

Profile mounting MUC

(order code: M)

Material: High-alloy steel





Dimensions	and ordering data					
For diam.	AH	B1	B2	В	3	B4
[mm]				G	GF/KF	
8	17.7	47	36.7	15.35	15.35	-
12	18.5	52.5	42.2	16.5	16.5	-
18	27.2	67.8±0.2	56±0.15	30.5	28.7	27.2
25	32.5	79.5±0.2	65.5±0.15	32.5	28.5	37.5
32	37.5	94±0.2	80±0.15	35	35	47.5
40	47	110.5±0.2	96±0.15	43	43	57
50	61	145±0.5	125±0.2	56	56	77
63	75	169±0.5	149±0.2	72.5	72.5	87

For diam.	В	35	В6	D1 Ø	D2 Ø		H1	
[mm]	G	GF/KF		H13	H7	G	GF/KF	1H-PN
8	-	-	5.1	3.5	-	37	37	-
12	-	-	5.1	3.5	-	42.5	42.5	-
18	25	23.2	5.7	5.5	5	57.5	64	-
25	33.5	29.5	7	5.5	5	67	76.5	87.5
32	37	37	7	5.5	5	82	87.5	97.5
40	46.8	46.8	7	6.5	6	100	111.5	125.5
50	61	61	7	9	6	137	141.5	151
63	69	69	10	9	6	159	172.5	-

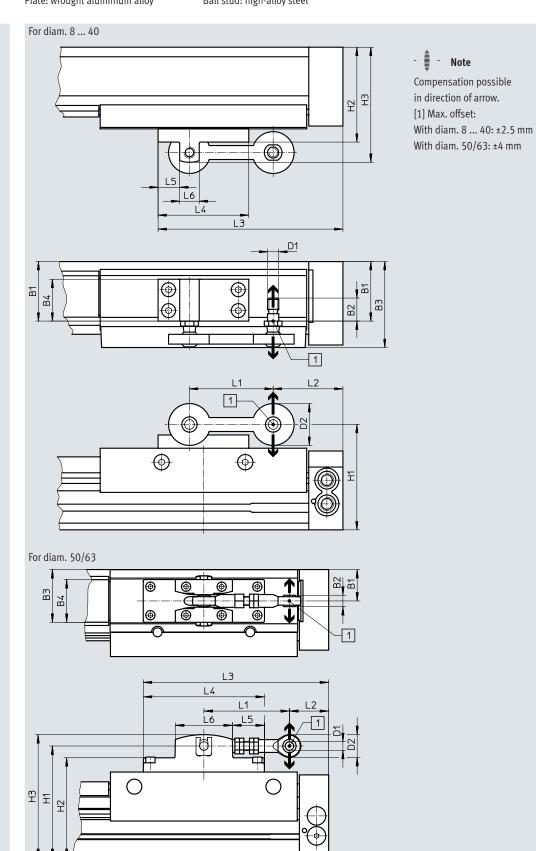
Dimensions	and ordering data				
For diam.	H2	Н3	H	14	L1
[mm]			G	GF/KF	
8	5	7	-	-	24
12	4.5	7	_	_	24
18	5.7 _{-0.2}	9.9±0.1	0.1	6.4	33±0.1
25	6.5 _{-0.2}	12.5±0.1	2.07	7.43	35±0.1
32	6.5 _{-0.2}	13±0.1	1.5	4	45±0.1
40	8.5 _{-0.2}	16±0.1	0.2	11.3	60±0.1
50	11	23.5	4.7	9.2	80±0.4
63	11	25.5	1.5	15	80±0.4

For diam.	L2	L3	Weight	Part no.	Type ¹⁾
[mm]	±0.05	±0.2	[g]		
8	-	-	28	526384	MUC-8
12	-	-	32	526387	MUC-12
18	20.5	-	78	531752	MUC-18
25	22.5	-	113	531753	MUC-25
32	30	-	174	531754	MUC-32
40	44	-	346	531755	MUC-40
50	26	56	874	531756	MUC-50
63	26	56	1080	531757	MUC-63

¹⁾ Suitable for ATEX

Moment compensator FKC

(order code: FK) for DGC-G Materials: Plate: wrought aluminium alloy Articulated joint: polyamide Ball stud: high-alloy steel





For diam.		en linear drive and	d Max. per	missible load in d	lirection of force			Ambien	t temperature	
	external guide					,				
[mm]	[mm]		[N]					[°C]		
8	±2.5		550			Backlash-free		-10 -	-60	
12			550			Backlash-free				
18			1400			Backlash-free				
25			1400			Backlash-free				
32	1		1400			Backlash-free				
40	1		1400			Backlash-free				
50	±4		5000			Low backlash				
63	1		5000			Low backlash				
,										
For diam.	B1	B2	В3	B4	D1	D2	H1	H2	Н3	L1
[mm]										
8	17.5	10.2	30	16	M5	20	43.5	42	48	40
12	18.5	10.2	31	16	M5	20	49	47.5	53.5	40
18	29.3	16.5	47.8	20	M8	30	66.8	59.8	73.8	60
25	42.65	16.5	61.15	30	M8	30	75.5	68	82.5	60
32	43	16.5	61.5	30	M8	30	90	82.5	97	60
40	57.3	16.5	75.8	45	M8	30	105	97.5	113	60
50	44	16	74	60	12 ^{H7}	32	156.5	140	172.4	120 125
63	50	16	80	60	12 ^{H7}	32	176.5	161.5	192.4	120 125
For diam.	L2	L3	L4	L5	L6	CRC ¹⁾	Weight	Part no.	Туре	
[mm]							[g]			
8	5.1	62.6	35	13	9	1	29	529350	FKC-8/12	
12	17.1	74.6	35	13	9		29	529350	FKC-8/12	
18	24.5	107	65	15.5	14		97	538714	FKC-18	
25	50	132.5	65	15.5	14		119	538715	FKC-25	
32	77.5	162	75	17.5	14		122	538961	FKC-32	
40	103	187.5	75	17.5	14		180	538962	FKC-40	
50	50 55	260	170	45	80		1200	545240	FKC-50/63	
63	75 80	260	170	45	80		1200	545240	FKC-50/63	

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

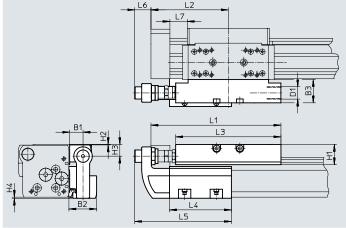
Shock absorber retainer DADP-DGC Stop KYC

(order code: YWZ1 or YWZ2) for DGC-GF, DGC-KF, DGC-FA

Shock absorber retainer DADP

Stop KYC

Materials: Shock absorber retainer, housing: anodised aluminium Free of copper and PTFE Materials: Stop, housing: anodised aluminium Stop bracket: stainless steel casting Clamp: high-alloy steel Free of copper and PTFE



- Note

Shock absorbers are not included in the scope of delivery.

Existing shock absorbers can be removed from the end caps of the linear drive and installed in the shock absorber retainer.

Under no circumstances may the linear drive and the intermediate-position module be operated without a shock absorber.

				, .				
Dimension	s							
For diam. [mm]		B1	B2	В3	H1	H2	Н3	H4
18	GF KF	16	34.5	29	20.7	0.2	12.5	0.7
25	GF KF	16.5	35	28 30	25.5	0.5	15	1.4
32	GF KF	16.5	35	28 30	25.5	0.5	15	1.7
40	GF KF	16	35.7	29 35	32 37	0.5	21.5	1.6
50	GF KF	25	50	41	40.5	0.5	24	0
63	GF KF	25	50	40	51.5	1.5	33	0
For diam. [mm]		L1	L2	L3	L4	L5	L6	L7 min.
18	GF KF	128	74.5	107	80	118.5	23.5	14.5
25	GF KF	168	100	136	80	125	20.5	22.5
32	GF KF	206.8	124.8	164	120	165	14.5	42.8 27.3
40	GF KF	255	150	210	156	220.5	31	30.8 31
50	GF KF	301	175	252	170	238	27	31
63	GF KF	328	200	256	200	268	24	41

Technical data and ordering data Precision adjustment Mounting example - ♣ - Note The stop KYC can be used in both directions. Mounting example - ♣ - Note The stop KYC can be mounted at any position along the stroke.

For diam.		Max. impact force	Ambient temperature	CRC ¹⁾	Weight	Part no.	Type ²⁾
[mm]		[N]	[°C]		[g]		
Shock abso	rber re	tainer					
18	GF	1100	-10 +80	2	140	541725	DADP-DGC-18-GF
	KF				130	541729	DADP-DGC-18-KF
25	GF	1400			205	541726	DADP-DGC-25-GF
	KF				180	541730	DADP-DGC-25-KF
32	GF	1700			225	541727	DADP-DGC-32-GF
	KF				215	541731	DADP-DGC-32-KF
40	GF	3500			380	541728	DADP-DGC-40-GF
	KF				460	541732	DADP-DGC-40-KF
50	GF	3500			890	545244	DADP-DGC-50
	KF						
63	GF	4300			1080	545245	DADP-DGC-63
	KF						

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) Suitable for ATEX

For diam. [mm]	Precision adjustment L [mm]	Ambient temperature [°C]	CRC ¹⁾	Weight [g]	Part no.	Type ²⁾
Stop						
18	10	-10 +80	2	400	541691	KYC-18
25	10			560	541692	KYC-25
32	10			790	541693	KYC-32
40	15			1525	541694	KYC-40
50	15			2270	545242	KYC-50
63	15			2950	545243	KYC-63

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.

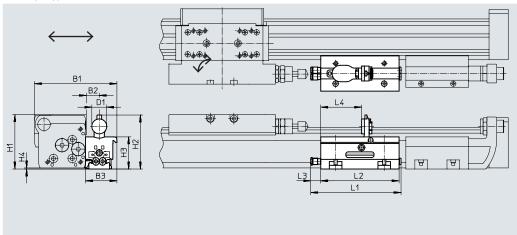
²⁾ Suitable for ATEX

Intermediate-position module DADM-DGC

(order code: Z1, Z2 or Z3) for DGC-KF



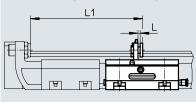
Materials: Housing: anodised aluminium Stop screw, nut: Galvanised steel Clamp, lever: High-alloy steel Free of copper and PTFE



Dimensions												
For diam.	B1	B2	В3	D1	H1	H2	Н3	H4	L1	L2	L3	L4
[mm]												
25	105	16.5	40	19	69.4	68.6	41	1.4	116	100	13.4	52.2
32	105 117.5	16.5 16.5	40	19 19	69.4 80.2	68.6 79.7	41 52	1.4	116 116	100 100	13.4 13.4	52.2 52.2

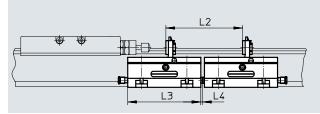
Minimum distance

Between end stop and intermediate position



For diam. [mm]	L1
25	145.3
32	185.3
40	271.5

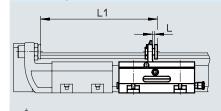
Between two intermediate positions



For diam. [mm]	L2	L3	L4
25	105	100	2.5
32	105	100	2.5
40	175	170	2.5

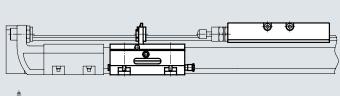
- · 🖣 Note
- Shock absorbers are not included in the scope of delivery.
 Existing shock absorbers can be removed from the end caps of the linear drive and installed in the shock absorber retainer.
- Under no circumstances may the linear drive and the intermediate-position module be operated without a shock absorber.
- A shock absorber retainer DADP-DGC and a stop KYC are additionally required when using an intermediate-position module.
- The projection (dimension H4) must be observed when using the drive in combination with the intermediate-position module DADM-DGC. Mounting via foot mountings HP or profile mountings MUC is recommended in this
- The stop lever positions can be sensed via proximity sensors SME/SMT-10
 → page 75.
- After reaching the intermediate position, the slide cannot directly travel further in the same direction. After an intermediate stop, the slide must first move back so that the stop lever of the intermediate-position module can swing in. The intermediate position can then be travelled through.

Precision adjustment L



The intermediate-position module DADM-DGC can be used in both directions. A shock absorber retainer DADP-DGC and a stop KYC are additionally needed when using an intermediate-position module.

Mounting example





The intermediate-position module DADM-DGC can be mounted at any place along the stroke.

Technical data					
For diam.	[mm]	25	32	40	
Pneumatic connection		QS-4			
Operating pressure	[MPa]	0.25 0.8			
	[bar]	2.5 8			
	[psi]	36.25 116			
Mounting position		Any			
Impact speed	[m/s]	→ page 46			
Swivel time	[ms]	≤100	≤100	≤300	
Precision adjustment L	[mm]	2	2	4	
Repetition accuracy	[mm]	0.02			
Position sensing		Via proximity sensors SME/	SMT-10		
Weight	[g]	430	530	970	
Ambient temperature	[°C]	-10 +60			
Corrosion resistance class CRC ¹⁾		2			
Note on materials		Free of copper and PTFE			
		RoHS-compliant		-	·

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.

Ordering data			
	For diam.	Part no.	Туре
	[mm]		
	25	541700	DADM-DGC-25-A
	32	541701	DADM-DGC-32-A
	40	541702	DADM-DGC-40-A
4			
200			
60			

Linear drives DGC

Accessories

Ordering data						
	For diam.	Comment	Order code	Part no.	Туре	PU ¹⁾
Slot nut HMBN ²⁾				•	Data sheets =	Internet: hmbr
	25 40	For mounting slot	В	547264	HMBN-5-1M5	10
	50, 63			186566	HMBN-5-2M5	
Centring pin/sleeve ZBS/ZBH ²⁾					Data sheets →	Internet: zbs, zbh
	For DGC-G					
0	8, 12	For slide	-	150928	ZBS-5	10
	8, 12	For cap	-	525273	ZBS-2	
	50,63			8137184	ZBH-9-B	
	For DGC-GF					'
	18	For slide	-	150928	ZBS-5	10
	25 63			8137184	ZBH-9-B	
	50, 63	For cap	_	8137184	ZBH-9-B	
	For DGC-KF		J			
	8, 12, 18	For slide	_	150928	ZBS-5	10
	25 63			8137184	ZBH-9-B	
	8, 12	For cap	_	525273	ZBS-2	
	18			150928	ZBS-5	
	25 63			8137184	ZBH-9-B	
Slot cover ABP-S ²⁾					Data shoots	→ Internet: abj
Siot cover Abrig	18 63	For sensor slot Each 0.5 m	L	151680	ABP-5-S	2
Shock absorber YSRW ²⁾					Data sheets	> Internet use
SHOCK GDSOIDEL LOVA.	8	For DGC basic design and	YSRW	540344	YSRW-DGC-8	→ Internet: ysrv
	12	recirculating ball bearing guide	1.5	540345	YSRW-DGC-12	
	18	For DGC with plain-bearing guide	_	540346	YSRW-DGC-18-GF	
	25	To be with plant bearing galac		540348	YSRW-DGC-25-GF	
	32	 		540350	YSRW-DGC-32-GF	
	40	—		540352	YSRW-DGC-40-GF	
	50			1232870	YSRW-DGC-40/50-B	
	63			543069	YSRW-DGC-40/50-B	
		For DCC with recirculating	_			
	18	For DGC with recirculating ball bearing guide		540347	YSRW-DGC-18-KF	
	25	Dail bealing guide		540349	YSRW-DGC-25-KF	
	32			540351	YSRW-DGC-32-KF	
	40, 50			1232870	YSRW-DGC-40/50-B	
	63			543069	YSRW-DGC-63	

Packaging unit
 Suitable for ATEX

Ordering data						
	For diam.	Comment	Order code	Part no.	Туре	PU ¹⁾
One-way flow	control valve GRLA				Data sheets →	nternet: grla
8	8 18	Metal design	-	193137	GRLA-M5-QS-3-D	1
				193138	GRLA-M5-QS-4-D	
	25, 32			193142	GRLA-1/8-QS-3-D	
				193143	GRLA-1/8-QS-4-D	
				193144	GRLA-1/8-QS-6-D	
				193145	GRLA-1/8-QS-8-D	
	40, 50			193146	GRLA-1/4-QS-6-D	
				193147	GRLA-1/4-QS-8-D	
				193148	GRLA-1/4-QS-10-D	
	63			193149	GRLA-3/8-QS-6-D	
				★ 193150	GRLA-3/8-QS-8-D	
				★ 193151	GRLA-3/8-QS-10-D	

¹⁾ Packaging unit

Proximity sensors for pis	ston diameter 8/	12 and intermediate-	position module DADM
---------------------------	------------------	----------------------	----------------------

Ordering data –	Ordering data − Proximity sensors for C-slot, magneto-resistive Data sheets → Internet: si							
	Type of mounting	Switching output	Electrical connection, outlet direction of connection	Cable length [m]	Part no.	Туре		
N/O contact				•	:			
	Insertable in the slot from above	PNP	Plug M8x1, 3-pin, in-line	0.3	★ 551375	SMT-10M-PS-24V-E-0.3-L-M8D		
			Cable, 3-wire, in-line	2.5	★ 551373	SMT-10M-PS-24V-E-2.5-L-0E		

Ordering data -	Proximity sensors for C-slot, mag	netic reed				Data sheets → Internet: sme
	Type of mounting	Switching output	Electrical connection, outlet direction of connection	Cable length [m]	Part no.	Туре
N/O contact						
	Insertable in the slot from above	Contacting	Plug M8x1, 3-pin, in-line	0.3	★ 551367	SME-10M-DS-24V-E-0.3-L-M8D
			Cable, 3-wire, in-line	2.5	★ 551365	SME-10M-DS-24V-E-2.5-L-OE
			Cable, 2-wire, in-line	2.5	★ 551369	SME-10M-ZS-24V-E-2.5-L-0E
	Insertable in the slot lengthwise	Contacting	Plug M8x1, 3-pin, in-line	0.3	173212	SME-10-SL-LED-24
			Cable, 3-wire, in-line	2.5	173210	SME-10-KL-LED-24

Proximity sensors for piston diameter 18 \dots 63

Ordering data -	- Proximity sensors for T-slot, magn	eto-resistive				Data sheets → Internet: smt
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Туре
N/O contact						
	Insertable in the slot from above,	PNP	Cable, 3-wire	2.5	★ 574335	SMT-8M-A-PS-24V-E-2.5-OE
T. S. J.	flush with the cylinder profile,		Plug M8x1, 3-pin	0.3	★ 574334	SMT-8M-A-PS-24V-E-0.3-M8D
	short design		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 contact						
	Insertable 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

Type of mounting Switching output Electrical connection Cable length [m] Part no. Type	Proximity s	ensors for piston diameter 18	63				
N/O contact Insertable in the slot from above, flush with the cylinder profile Cable, 3-wire 2.5	Ordering dat	a – Proximity sensors for T-slot, magn	etic reed				Data sheets → Internet: sme
Insertable in the slot from above, flush with the cylinder profile Cable, 3-wire 2.5			Switching	Electrical connection		Part no.	Туре
Flush with the cylinder profile S.0	N/O contact						
N/C contact Insertable in the slot from above, flush with the cylinder profile Cable, 3-wire 7.5		· ·	Contacting	Cable, 3-wire		7.1	
Insertable in the slot from above, flush with the cylinder profile Insertable in the slot from above, flush with the cylinder profile Post in the cylinder profile SME-8M-DO-24V-K-7.5-OE				,		7.1	1 1
Insertable in the slot from above, flush with the cylinder profile Insertable in the slot from above, flush with the cylinder profile Post in the cylinder profile SME-8M-DO-24V-K-7.5-OE	N/C contact						
Type of mounting	THE STATE OF THE S	· ·	Contacting	Cable, 3-wire	7.5	★ 546799	SME-8M-DO-24V-K-7.5-0E
Insertable in the slot from above, flush with the cylinder profile Safety clip for ATEX zone Description For size Part no. Type	Ordering dat		Switching	Electrical connection	_	Part no.	Data sheets → Internet: sdbt
Glush with the cylinder profile To 579072 SDBT-MS-20NL-ZN-E-10-LE-EX6 Ordering data — Safety clip for ATEX zone Description Protects "equipment that is not intrinsically safe" against simple disconnection, here the plug of the proximity sensor SMT and connecting cable NEBU ATEX category: gas: II 3G / dust: II 3D Ordering data — Connecting cables Electrical connection, left Electrical connection, right Straight socket, M8x1, 3-pin Cable, open end, 3-wire Angled socket, M8x1, 3-pin Cable, open end, 3-wire Cable, open end, 3-wire 2.5 ★ 541334 NEBU-M8G3-K-2.5-LE3 5 ★ 541340 NEBU-M1265-K-2.5-LE3 Angled socket, M8x1, 3-pin Cable, open end, 3-wire 2.5 ★ 541341 NEBU-M8W3-K-2.5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541341 NEBU-M8W3-K-2.5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541341 NEBU-M8W3-K-2.5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541341 NEBU-M8W3-K-2.5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541367 NEBU-M12W5-K-2.5-LE3	N/O contact						
Description Protects "equipment that is not intrinsically safe" against simple disconnection, here the plug of the proximity sensor SMT and connecting cable NEBU ATEX category: gas: II 3G / dust: II 3D Plug M8x1 S48067 NEAU-M8-GD NEAU-M8-M8-K-2-5-LE3 NEAU-M8-M8-K-2-5-LE3 NEAU-M8-GD NEAU-M8-GD NEAU-M8-GD NEAU-M8-GD NEAU-M8-GD NEAU-M8-GD NEAU-M8-GD NEAU-M8-M8-M8-K-2-5-LE3 NEAU-M8-M8-K-2-5-LE3 NEAU-M8-M8-M8-K-2-5-LE3 NEAU-M8-M8-M8-K-2-5-LE3 NEAU-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-		,	NAMUR	Cable, 2-wire			-
disconnection, here the plug of the proximity sensor SMT and connecting cable NEBU • ATEX category: gas: II 3G / dust: II 3D Ordering data - Connecting cables Electrical connection, left Electrical connection, right Cable length [m] Straight socket, M8x1, 3-pin Cable, open end, 3-wire 2.5 ★ 541333 NEBU-M8G3-K-2.5-LE3 Straight socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 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 Angled socket, M8x1, 3-pin Cable, open end, 3-wire 2.5 ★ 541364 NEBU-M12G5-K-2.5-LE3 5 ★ 541364 NEBU-M12G5-K-5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541381 NEBU-M8W3-K-2.5-LE3 Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 ★ 541367 NEBU-M12W5-K-2.5-LE3	Ordering dat	1			For size	Part no.	Туре
Electrical connection, left Electrical connection, right Cable length [m] Part no. Type	To	Protects "equipment that is not intrinsically safe" against simple disconnection, here the plug of the proximity sensor SMT and connecting cable NEBU			Plug M8x1	548067	NEAU-M8-GD
Straight socket, M8x1, 3-pin Cable, open end, 3-wire 2.5 ★ 541333 NEBU-M8G3-K-2.5-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 6 ★ 541338 NEBU-M8W3-K-2.5-LE3 7 ★ 541341 NEBU-M8W3-K-2.5-LE3 8 ★ 541341 NEBU-M8W3-K-2.5-LE3 9 ★ 541341 NEBU-M12W5-K-2.5-LE3 10 ★ 541367 NEBU-M12W5-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	Ordering dat	,	Electi	rical connection, right	Cable length	Part no.	1
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 6 ★ 541388 NEBU-M8W3-K-2.5-LE3 7 ★ 541341 NEBU-M8W3-K-2.5-LE3 8 ★ 541341 NEBU-M8W3-K-5-LE3 9 ★ 541367 NEBU-M12W5-K-2.5-LE3	Ordering dat	,	Electi	rical connection, right	1	Part no.	1
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	Ordering dat	Electrical connection, left			[m] 2.5	★ 541333	Туре
Angled socket, M8x1, 3-pin Cable, open end, 3-wire 2.5 ★ 541348 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	Ordering dat	Electrical connection, left Straight socket, M8x1, 3-pin	Cable	e, open end, 3-wire	[m] 2.5 5	★ 541333 ★ 541334	Type NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-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	Ordering dat	Electrical connection, left Straight socket, M8x1, 3-pin	Cable	e, open end, 3-wire	[m] 2.5 5 2.5	★ 541333 ★ 541334 ★ 541363	Type NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-5-LE3 NEBU-M12G5-K-2.5-LE3
Angled socket, M12x1, 5-pin Cable, open end, 3-wire 2.5 541367 NEBU-M12W5-K-2.5-LE3	Ordering dat	Electrical connection, left Straight socket, M8x1, 3-pin Straight socket, M12x1, 5-pin	Cable	e, open end, 3-wire	[m] 2.5 5 5 2.5 5	 ★ 541333 ★ 541334 ★ 541363 ★ 541364 	Type NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-5-LE3 NEBU-M12G5-K-2.5-LE3 NEBU-M12G5-K-5-LE3
	Ordering dat	Electrical connection, left Straight socket, M8x1, 3-pin Straight socket, M12x1, 5-pin	Cable	e, open end, 3-wire	[m] 2.5 5 2.5 5 2.5 5	★ 541333 ★ 541334 ★ 541363 ★ 541364 ★ 541338	Type NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-5-LE3 NEBU-M12G5-K-2.5-LE3 NEBU-M12G5-K-5-LE3 NEBU-M8W3-K-2.5-LE3
	Ordering dat	Electrical connection, left Straight socket, M8x1, 3-pin Straight socket, M12x1, 5-pin Angled socket, M8x1, 3-pin	Cable Cable	e, open end, 3-wire e, open end, 3-wire e, open end, 3-wire	[m] 2.5 5 2.5 5 2.5 5 2.5 5	★ 541333 ★ 541334 ★ 541363 ★ 541364 ★ 541338 ★ 541341	Type NEBU-M8G3-K-2.5-LE3 NEBU-M8G3-K-5-LE3 NEBU-M12G5-K-2.5-LE3 NEBU-M8W3-K-2.5-LE3 NEBU-M8W3-K-2.5-LE3

Festo - Your Partner in Automation





1 Festo Inc.

5300 Explorer Drive Mississauga, ON L4W 5G4 Canada

Festo Customer Interaction Center

Tel: 1877 463 3786 Fax: 1877 393 3786



2 Festo Pneumatic

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

Multinational Contact Center

01 800 337 8669



3 Festo Corporation

1377 Motor Parkway Suite 310 Islandia, NY 11749



Regional Service Center

7777 Columbia Road Mason, OH 45040

Festo Customer Interaction Center

1 800 993 3786 1 800 963 3786 customer.service.us@festo.com

Connect with us









