

Passive guide axes FDG, without drive

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Passive guide axes FDG, without drive

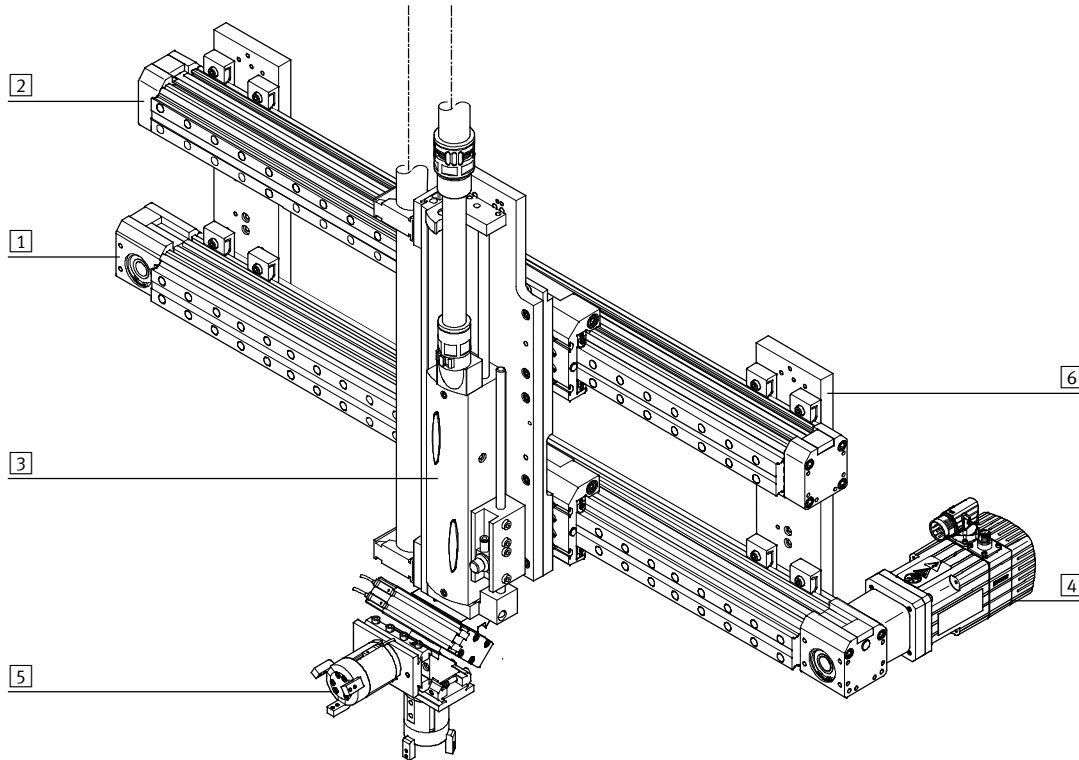
Key features

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At a glance

- Driveless linear guide unit with guide and freely movable slide
- The passive guide axis is designed to increase force and torque capacities in multi-axis applications
- Higher torsional resistance
- Reduced vibrations with dynamic loads
- Drive axis and passive guide axis can be arranged adjacent to or above one another

System product for handling and assembly technology



System components and accessories

	Brief description	→ Page/Internet
1 Axes	Wide range of combinations possible within handling and assembly technology	axis
2 Passive guide axes	For increasing force and torque capacity in multi-axis applications	guide axis
3 Drives	Wide range of combinations possible within handling and assembly technology	drive
4 Motors	Servo and stepper motors, with or without gearing	motor
5 Grippers	Wide range of variations possible within handling and assembly technology	gripper
6 Adapters	For drive/drive and drive/gripper combinations	adapter kit

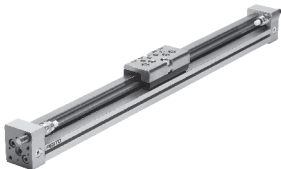
Passive guide axes FDG, without drive

Key features

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Guide axes and the corresponding drives

Passive guide axis DGC-FA



- Can be combined with:
 - Linear drive DGC-KF
- For size 8 ... 63
- Load capacity to max. 6,890 N or 380 Nm

Passive guide axis EGC-FA



- Can be combined with:
 - Toothed belt axis EGC-TB
 - Spindle axis EGC-BS
- For size 70 ... 185
- Load capacity to max. 15,200 N or 1,820 Nm

Passive guide axis FDG-ZR-RF



- Can be combined with:
 - Toothed belt axis DGE-ZR-RF
- For size 25 ... 63
- Load capacity to max. 1,500 N or 600 Nm

Passive guide axis FDG-P/-ZR/-SP

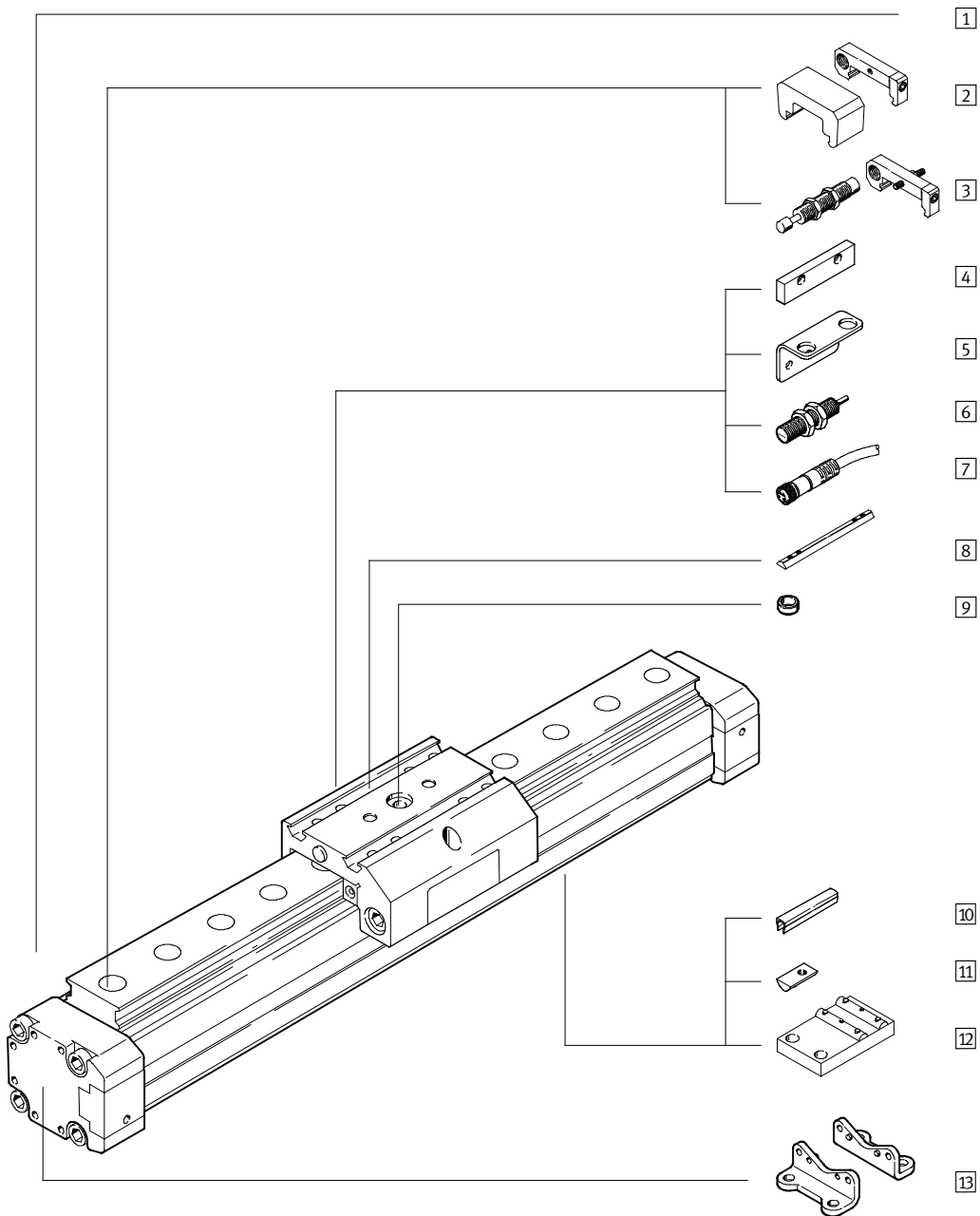
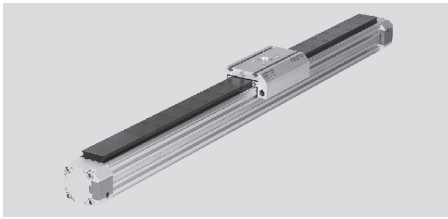


- Can be combined with:
 - Linear drive DGPL
 - Toothed belt axis DGE-ZR-KF
 - Spindle axis DGE-SP-KF
- For size 18 ... 63
- Load capacity to max. 14,050 N or 1,820 Nm

Passive guide axes FDG, without drive

Peripherals overview

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Passive guide axes FDG, without drive

Peripherals overview

Variants and accessories		
Type	Brief description	→ Page/Internet
1 Passive guide axis FDG	Guide without drive	6
2 Emergency buffer with retainer A	Absorbs the energy created by the movement of the slide when it reaches the end position	22
3 Shock absorber kits C/E	Absorbs the energy created by the movement of the slide when it reaches the end position	21
4 Switching lug L	For sensing the slide position	23
5 Sensor bracket T	Adapter for mounting the SIEN proximity sensor on the axis	23
6 Proximity sensors O/P/R/W	For providing a proximity signal or safety check	25
7 Cable with socket V	For proximity sensor	25
8 Slot nut for slide X	For mounting loads and attachments on the slide	24
9 Centring sleeve Z	For centring loads and attachments on the slide	24
10 Slot cover B/S	To protect against the ingress of dirt	24
11 Slot nut for mounting slot Y	For mounting attachments	24
12 Central support M	To mount the axis	20
13 Foot mounting F	To mount the axis	20

Passive guide axes FDG, without drive

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Type codes

	FDG	-	25	-	500	-	ZR	-	KF	-	GK	-	
Type													
FDG	Guide unit without drive												
Size													
Stroke [mm]													
Passive guide axis													
ZR	For toothed belt axis DGE-ZR-KF												
SP	For spindle drive DGE-SP-KF												
P	For pneumatic linear drive DGPL												
Guide													
KF	Recirculating ball bearing guide												
Slide													
GK	Standard slide												
GV	Extended slide												
GA	Protected version												
Additional slide													
KL	Left												
KR	Right												

Passive guide axes FDG, without drive

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Type codes

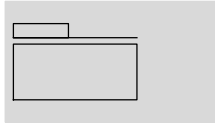
→		ZUB	-	2S			F		2E	Z	2T	2L	20	2V
Accessories														
ZUB	Accessories supplied loose													
Slot cover														
...S	Sensor slot													
...B	Mounting slot													
Slot nut														
...Y	For mounting slot													
...X	For slide													
Central support														
...M	Central support													
Foot mounting														
...F	Foot mounting													
Emergency buffer and retainer														
...A	Emergency buffer and retainer													
Shock absorber kit														
...C	And retainer for GK/GV													
...E	For GA													
Centring sleeve														
...Z	Centring sleeve													
Sensor bracket														
...T	For inductive proximity sensors													
Switch lug														
L	Switch lug													
Proximity sensors														
...O	NO contact, cable													
...P	NC contact, cable													
...W	NO contact, plug													
...R	NC contact, plug													
Cable with socket														
V	2.5 m													

Passive guide axes FDG, without drive

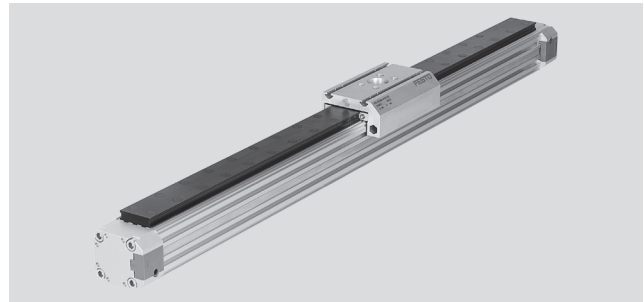
Technical data

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Function



-  Size
18 ... 63
-  Stroke length
100 ... 5,100 mm
-  www.festo.com



General technical data								
Size			18	25	32	40	50	63
Max. stroke	FDG-ZR	[mm]	1 ... 1,000	1 ... 5,100	–	1 ... 4,900	–	1 ... 4,700
	FDG-SP	[mm]	1 ... 500	1 ... 1,000	–	1 ... 1,500	–	1 ... 2,000
	FDG-P	[mm]	10 ... 1,800	10 ... 3,000	10 ... 3,000	10 ... 3,000	10 ... 3,000	10 ... 3,000
Design			Driveless linear guide unit with slide					
Guide			External recirculating ball bearing guide					
Fitting position			Any					
Cushioning			Not adjustable at either end					
			Self-adjusting at both ends					
Type of mounting			Profile mounting					
			Foot mounting					
			Direct mounting					
Increase in no-load drive torque	for DGE-...-ZR by	[Nm]	0.005	0.02	–	0.03	–	0.085
	for DGE-SP by	[Nm]	0.04	0.1	–	0.15	–	0.45
Thrust ¹⁾		[N]	5	10	7	9	12	16
Ambient temperature		[°C]	–10 ... +60					

1) Measured at FDG-18 = 0.05 m/s; FDG-25... 63 = 0.2m/s

Weights [kg]							
Size		18	25	32	40	50	63
FDG-ZR							
Basic weight at 0 mm stroke	GK	0.879	2.022	–	6.055	–	21.493
	GV	1.341	2.927	–	7.939	–	31.464
	GA	–	2.931	–	8.128	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	–	0.968	–	2.423
	GV	0.274	0.479	–	0.968	–	2.423
	GA	–	0.570	–	1.092	–	–
FDG-SP							
Basic weight at 0 mm stroke	GK	0.743	1.482	–	4.296	–	13.454
	GV	1.232	2.530	–	7.678	–	25.847
	GA	–	2.459	–	6.798	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	–	0.968	–	2.423
	GV	0.274	0.479	–	0.968	–	2.423
	GA	–	0.570	–	1.092	–	–
FDG-P							
Basic weight at 0 mm stroke	GK	0.685	1.416	2.449	4.160	8.445	13.328
	GV	1.147	2.321	3.784	6.961	13.491	23.3
	GA	–	2.211	3.282	5.989	–	–
Additional weight per 100 mm stroke	GK	0.274	0.479	0.705	0.968	1.8	2.423
	GV	0.274	0.479	0.705	0.968	1.8	2.423
	GA	–	0.570	0.808	1.092	–	–

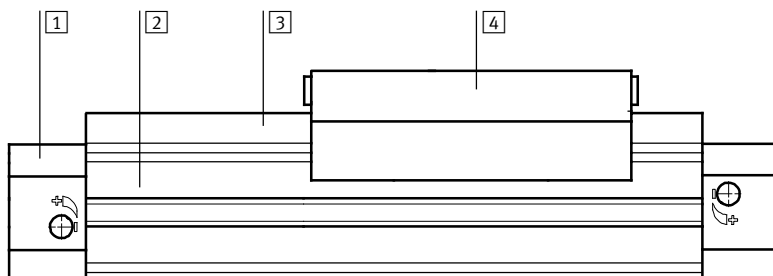
Passive guide axes FDG, without drive

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Technical data

Materials

Sectional view

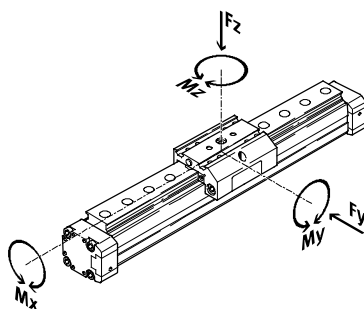


Axis

1	End cap	Anodised aluminium
2	Profile	Anodised aluminium
3	Guide rail	Ø 18 Hardened steel Ø 25 ... 63 Hardened steel with corrosion resistant coating
4	Slide	Anodised aluminium
Note on material		Free of copper, PTFE and silicone

Characteristic load values

The forces and torques specified refer to the centre of the guide rails. They must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



If the axis is simultaneously subjected to several of the forces and torques listed below, the following equations must be satisfied in addition to the indicated maximum loads.

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

Permissible forces and torques

Size	18	25	32	40	50	63
GK/GA – standard slide/protected slide						
F _y _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
F _z _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
M _x _{max.} [Nm]	7	45	63	170	240	580
M _y _{max.} [Nm]	23	85	127	330	460	910
M _z _{max.} [Nm]	23	85	127	330	460	910
GV – extended slide						
F _y _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
F _z _{max.} [N]	930	3,080	3,080	7,300	7,300	14,050
M _x _{max.} [Nm]	7	45	63	170	240	580
M _y _{max.} [Nm]	45	170	250	660	920	1,820
M _z _{max.} [Nm]	45	170	250	660	920	1,820

Passive guide axes FDG, without drive

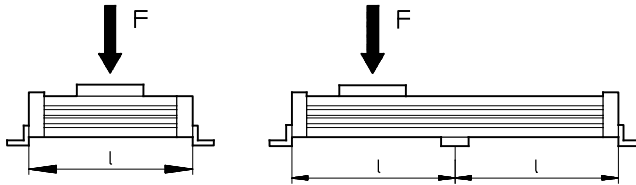
Technical data

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Maximum permissible support span l as a function of the force F

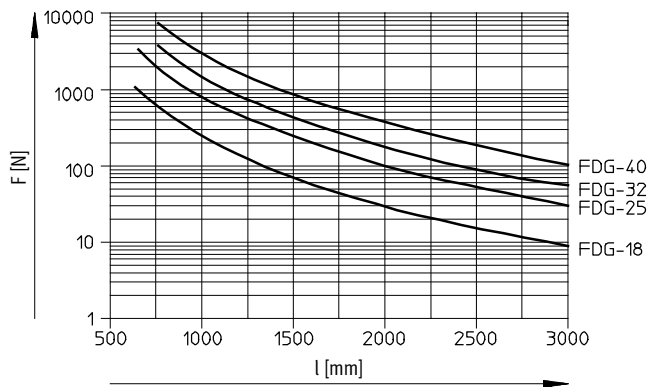
The axis may need to be supported with central supports MUP in order to limit deflection in the case of large strokes. The following diagrams serve to determine the maximum permissible support span l as a function of the force F .

Force on the surface of the slide

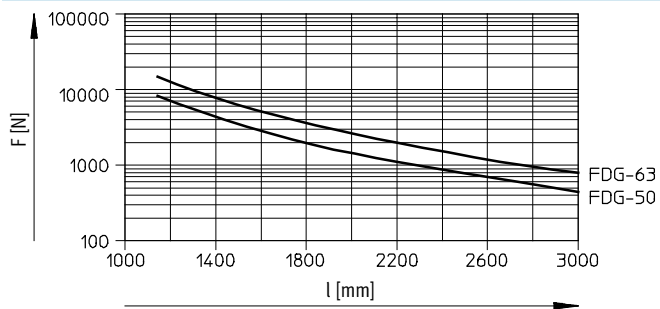


Maximum permissible support span l (without central support) as a function of the force F

Size 18...40



Size 50...63

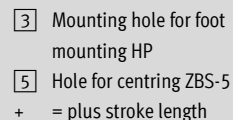


Technical data

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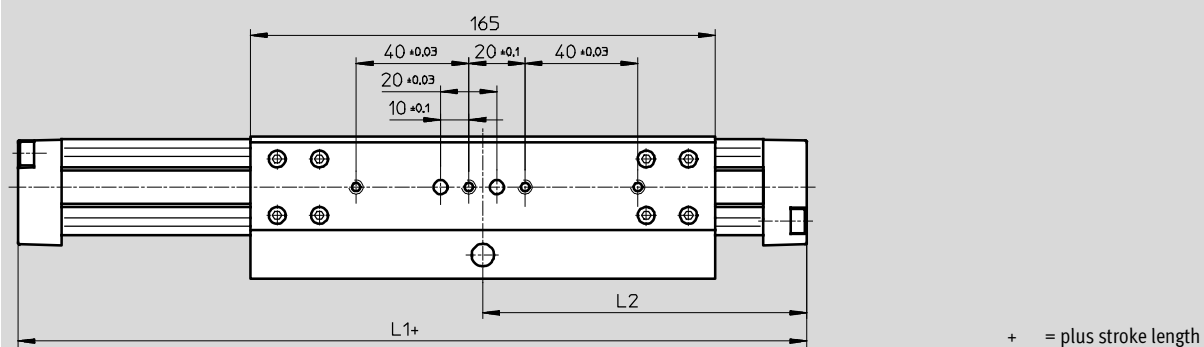
Standard slide GK

Size 18-...



Extended slide GV

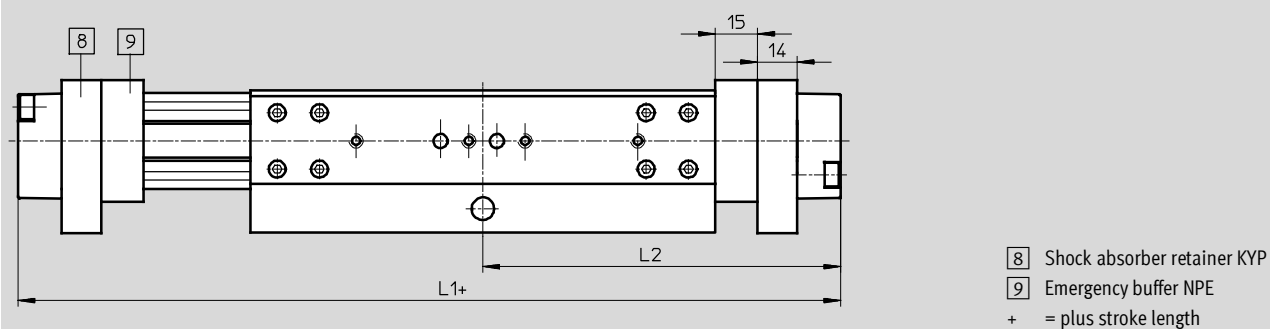
Size 18-P-GV



+ = plus stroke length

Extended slide GV

Size 18-ZR-/-SP



- 8 Shock absorber retainer KYP
- 9 Emergency buffer NPE
- + = plus stroke length

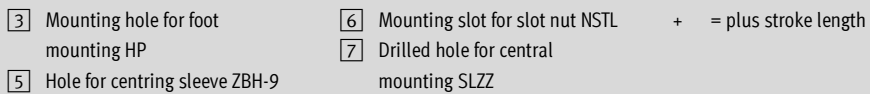
Size	L1		L2	
	GK	GV	GK	GV
FDG-18-...-P-...	150	230	75	115
FDG-18-...-ZR-...	221	301	110.5	150.5
FDG-18-...-SP-...	171	261	92	132

Technical data

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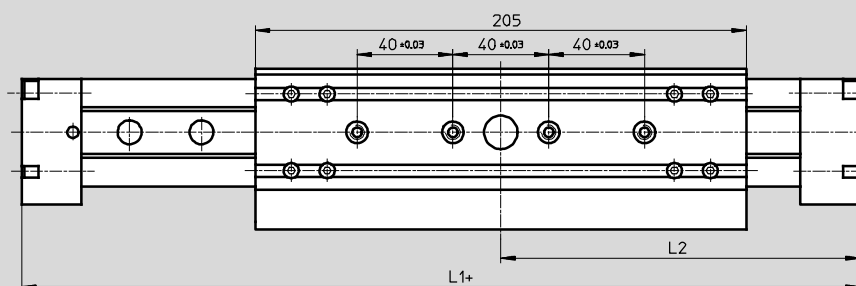
Standard slide GK

Size 25-...



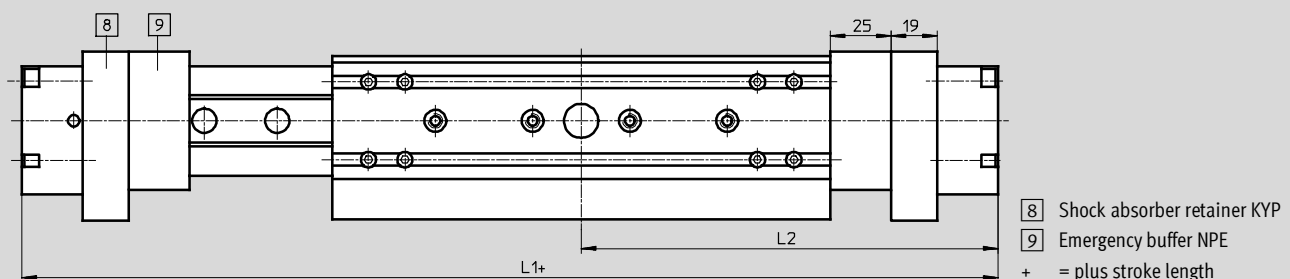
Extended slide GV

Size 25-P



Extended slide GV

Size 25-ZR/-SP



Passive guide axes FDG, without drive

Technical data

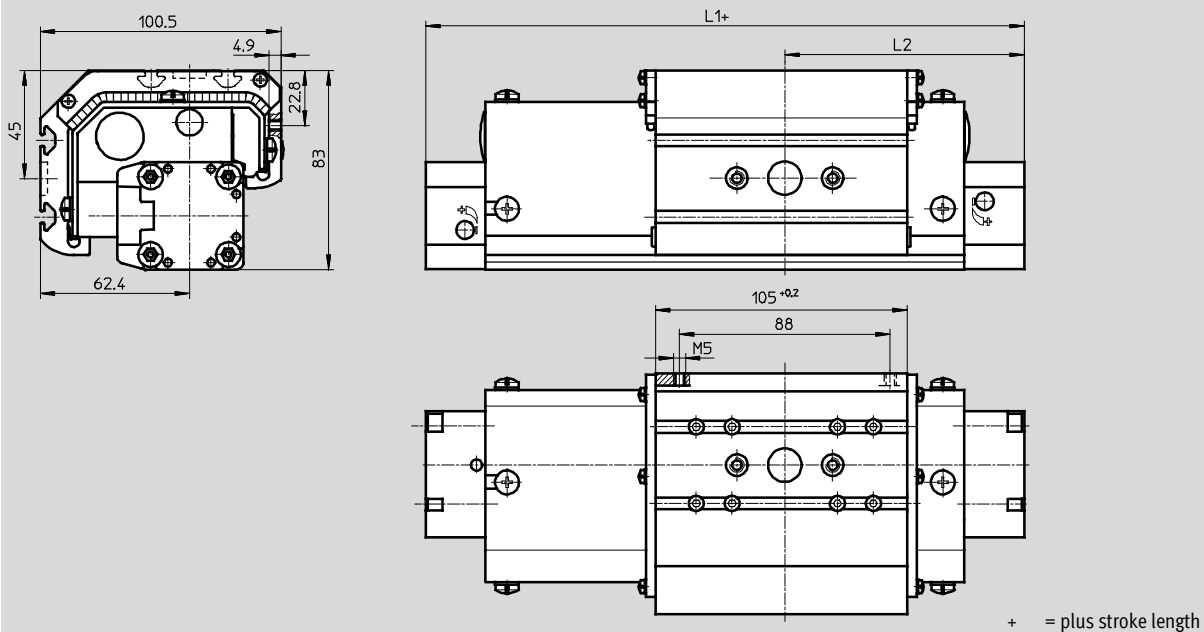
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Dimensions

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Protected version GA

Size 25-...GA



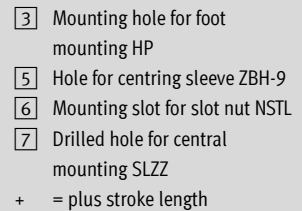
Size	L1			L2		
	GK	GV	GA	GK	GV	GA
FDG-25-...-P-...	200	300	200	100	150	100
FDG-25-...-ZR-...	326	426	326	163	213	163
FDG-25-...-SP-...	213	343	243	101.5	171.5	121.5

Technical data

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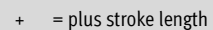
Standard slide GK

Size 32...63-...



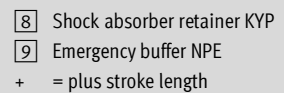
Extended slide GV

Size 32...63-P



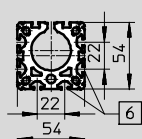
Extended slide GV

Size 40/63-ZR/-SP

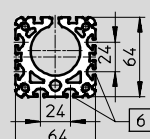


Profile barrel

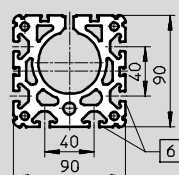
Size 32



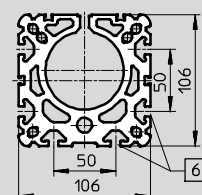
Size 40



Size 50



Size 63



6 Mounting slot for slot nut NST

Passive guide axes FDG, without drive

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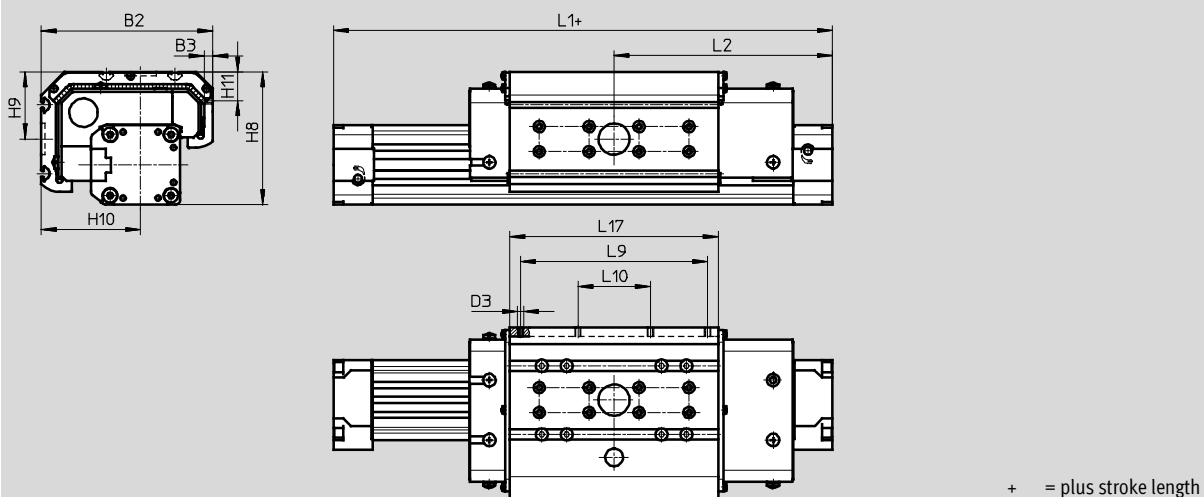
Technical data

Dimensions

Download CAD data → www.festo.com

Dust-proof version

Size 32/40-...GA



Size	L1			L2		
	GK	GV	GA	GK	GV	GA
FDG-32-...P-...	250	380	250	125	190	125
FDG-40-...P-...	300	470	300	150	235	150
FDG-50-...P-...	350	550	–	175	275	–
FDG-63-...P-...	400	650	–	200	325	–
FDG-40-...ZR-...	497	667	497	248.5	333.5	248.5
FDG-63-...ZR-...	738	988	–	369	494	–
FDG-40-...SP-...	315	545	375	153	271.5	186.5
FDG-63-...SP-...	406	756	–	198	378	–

Size	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	D2 Ø	D3
									±0.2			
32	54	112.1	–	46	21	40	63	79	47	20	4.3	M5
40	64	137.6	7	53	28	49	78.5	96.5	55	20	4.3	M5
50	90	–	–	76	44	72	97	122	72	40	6.3	M6
63	106	–	–	89	44	83	121	142	90	40	6.3	M8

Size	D6	H1	H2	H3	H4	H5	H7	H8	H9	H10	H11	H12	L3
32	M5	72	66	62	23	27	77.5	93.1	49.5	64.5	–	8.3	–
40	M5	86	78	71.8	26.5	32	90.5	106.6	54	79.6	23.1	7	40
50	M6	115	106	99	36	45	122.5	–	–	–	–	11.5	–
63	M8	131	122	115	44.5	53	144.5	–	–	–	39.5	12.5	63

Size	L4	L5	L9	L10	L17	L18	L19	L20	L21	T1	T2	T4	T8
			±0.1	±0.1	±0.2	±0.03	±0.03		±0.1				
32	–	31	112	–	131	40	–	261	40	13.2	3	12.5	8.5
40	32	31	150	58	167	40	40	337	40	13.2	4	12.5	8.5
50	–	34	184	68	202	40	40	402	80	15.2	6	18.5	8
63	44	34	200	72	230	40	40	480	120	21.2	6	20.5	10.5

Passive guide axes FDG, without drive

Ordering data – Modular product system

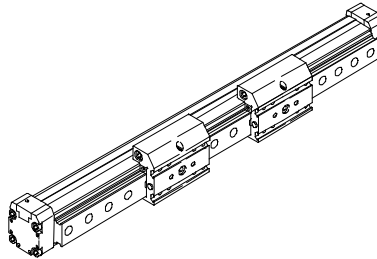
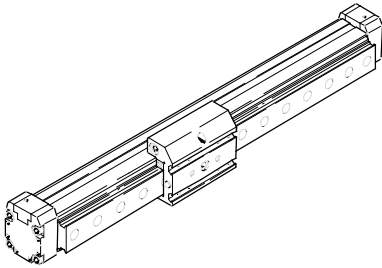
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Order code

Mandatory data/Options

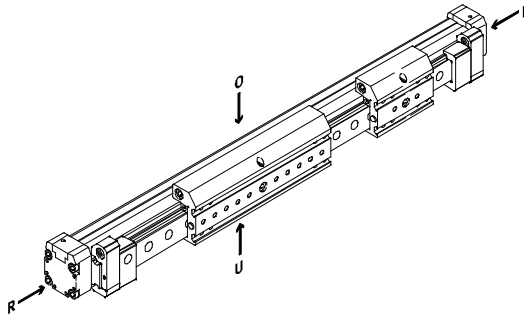
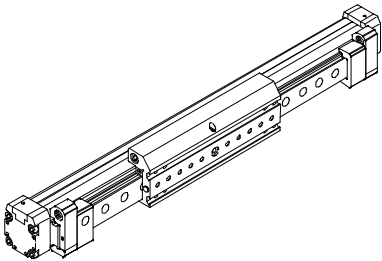
Standard slide GK

Standard slide plus additional slide GK-KL/-KR

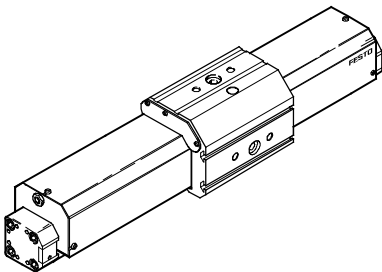


Extended slide GV

Extended slide plus additional slide GK-KL/-KR



Dust-proof version GA



-  - Note

O = top

R = right

U = underneath

L = left

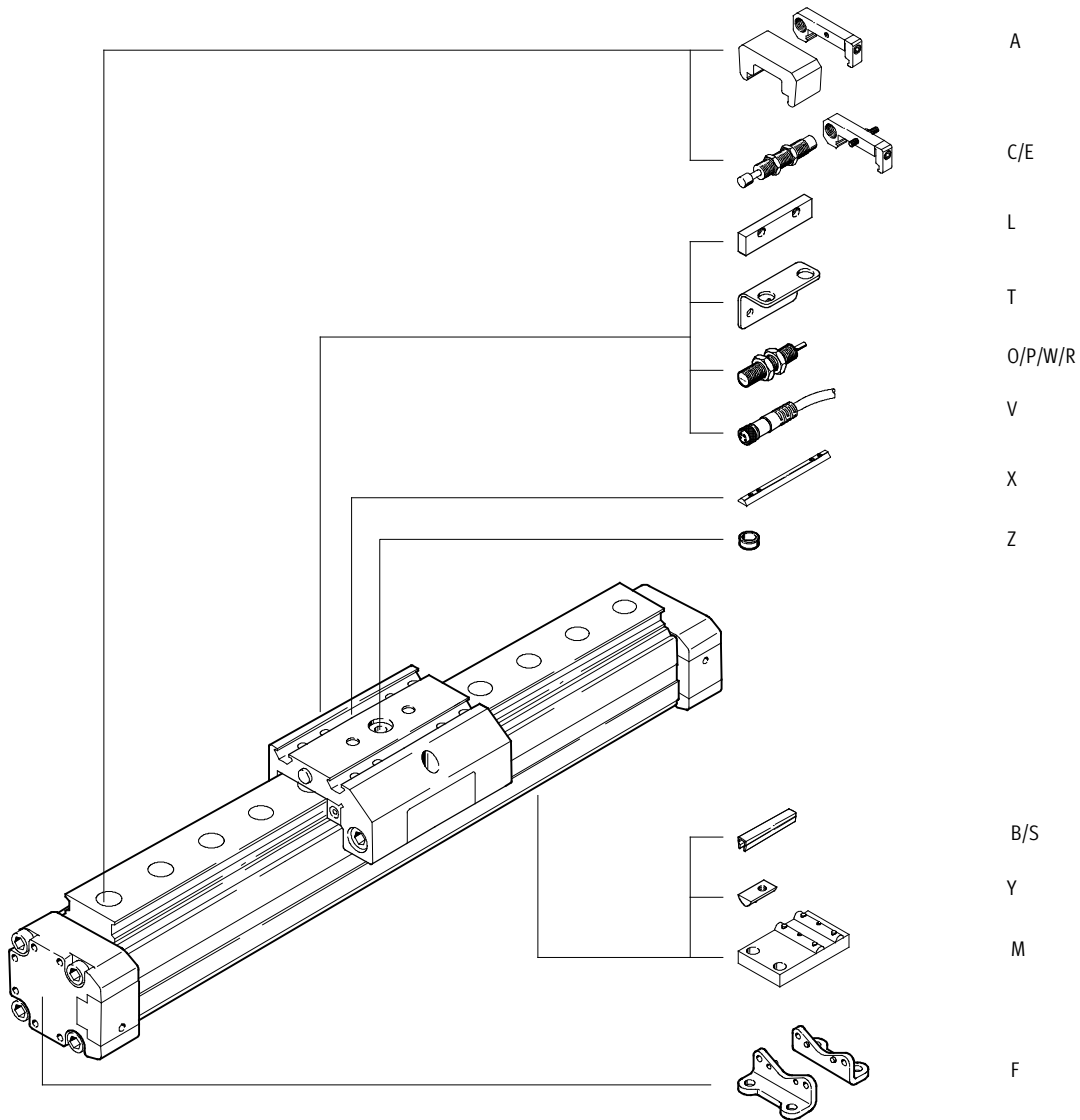
Passive guide axes FDG, without drive

Ordering data – Modular product system

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Order code

Options



Passive guide axes FDG, without drive

Ordering data – Modular product system

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Mandatory data							Options →
Module No.	Drive function	Size	Stroke	Passive guide axis	Guide	Slide	Additional slide
192850	FDG	18	1 ... 5 100	ZR	KF	GK	KL
192851		25		SP		GV	KR
192852		32		P		GA	
192853		40					
192854		50					
192855		63					
Ordering example							
192853	FDG	- 40	- 500	- ZR	- KF	- GK	-

Ordering table											
Size		18	25	32	40	50	63	Condi- tions	Code	Enter code	
M	Module No.	192850	192851	192852	192853	192854	192855				
	Drive function	Guide unit without drive							FDG	FDG	
	Size	18	25	32	40	50	63		-...		
	Stroke [mm] with ZR (as for corresponding drive axis)	1 ... 1 700	1 ... 5 100	—	1 ... 4 900	—	1 ... 4 700		-...		
		with SP	1 ... 500	1 ... 1 000	—	1 ... 1 500	—	1 ... 2 000			
		with P	10 ... 1 800	10 ... 3 000	10 ... 3 000	10 ... 3 000	10 ... 3 000	10 ... 3 000			
	Passive guide axis	for	DGE-ZR	DGE-ZR	—	DGE-ZR	—	DGE-ZR		-ZR	
		for	DGE-SP	DGE-SP	—	DGE-SP	—	DGE-SP		-SP	
		for	DGP	DGP	DGP	DGP	DGP	DGP		-P	
	Guide	Recirculating ball bearing guide							-KF	-KF	
	Slide	Standard							-GK		
		Extended							-GV		
		Maximum stroke [mm]									
		with ZR	(920)	(5 000)	—	(4 730)	—	(4 450)			
		with SP	(410)	(870)	—	(1 270)	—	(1 650)			
		—	Protected version				—	—	[1]	-GA	
		Maximum stroke [mm]									
		with ZR	—	(1 800)	—	(1 800)	—	—			
with SP	—	(970)	—	(1 440)	—	—					
	with P	—	(2 000)	(2 000)	(2 000)	—	—				
Q ↓	Additional slide	Standard slide left						[2]	-KL		
		Standard slide right						[2]	-KR		

[1] GA Not with accessories T, L, O, P, W, R.

[2] KL, KR Only with slide GK or GV.

Transfer order code

	FDG	-		-		-	KF	-		-	
--	-----	---	--	---	--	---	----	---	--	---	--

Passive guide axes FDG, without drive

FESTO

Ordering data – Modular product system

Options

Accessories	Slot cover	Slot nut	Central support	Foot mounting	Emergency buffer and retainer	Shock absorber	Centring sleeve	Sensor bracket	Switching lug	Proximity sensors	Plug socket
ZUB	...S ...B	...Y ...X	...M	...F	...A	...C ...E	...Z	...T	L	...O ...P ...W ...R	...V
ZUB	– SB	4Y2X		F		2C	10Z			20	

Ordering table

Ordering table		18	25	32	40	50	63	Condi- tions	Code	Enter code
↓	Accessories	Supplied separately							ZUB-	ZUB-
0	Slot cover	Sensor slot	1 ... 10						...S	
		Mounting slot	–	–	1 ... 10				...B	
	Slot nut	for mounting slot	1 ... 10						...Y	
		for slide	–	1 ... 10					...X	
	Central support	1 ... 10						...M		
	Foot mounting (kit)	1 ... 10						...F		
	Emergency buffer and retainer	1 ... 2	1 ... 2	–	1 ... 2	–	1 ... 2	3	...A	
		Effective stroke reduction [mm] with emergency buffer at both ends (10) (30) – (60) – (100)								
	Shock absorber and retainer	1 ... 2						4	...C	
		for dust-proof version	–	1 ... 2				–	–	5
Centring sleeve (pack of 10)		10, 20, 30, 40, 50, 60, 70, 80, 90							...Z	
Sensor bracket		1 ... 5	–	1 ... 5	–	1 ... 5		...T		
Switching lug		1	–	1	–	1		L		
Inductive proximity sensor	NO contact, cable	1 ... 5	–	1 ... 5	–	1 ... 5		...O		
	NC contact, cable	1 ... 5	–	1 ... 5	–	1 ... 5		...P		
	NO contact, plug	1 ... 5	–	1 ... 5	–	1 ... 5		...W		
	NC contact, plug	1 ... 5	–	1 ... 5	–	1 ... 5		...R		
Cable with socket, 2.5 m		1 ... 5	–	1 ... 5	–	1 ... 5		...V		

- [3] A Not with passive guide axis P.
Mounted as standard for slides GV, GA.
- [4] C Only with slides GK and GV.

- [5] E Only with slide GA

Transfer order code

ZUB –

Passive guide axes FDG, without drive

Accessories

FESTO

Foot mounting HP (Order code: F)

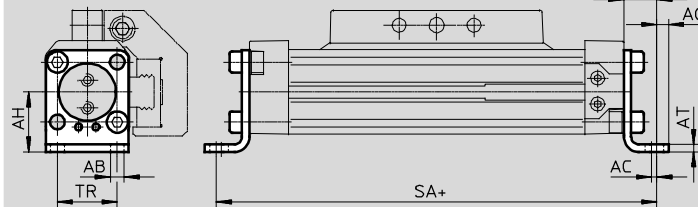
Material:
Galvanised steel

Free of copper, PTFE and silicone

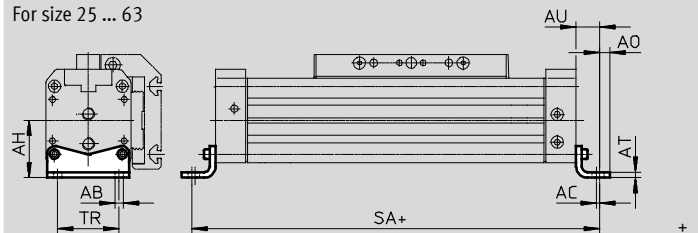


HP-25

For size 18



For size 25 ... 63



+ = plus stroke length

Dimensions and ordering data

For size	AB Ø	AC	AH	AO	AT	AU	SA	TR	Weight [g]	Part No.	Type
18	5.5	2	24	4.8	3	13.2	176	24	70	158472	HP-18
25	5.5	2	29.5	6	3	13	226	32.5	61	150731	HP-25
32	6.6	2	37	7	4	17	284	38	117	150732	HP-32
40	6.6	2	46	8.5	5	17.5	335	45	188	150733	HP-40
50	9	3	61	11	6	25	400	65	243	150734	HP-50
63	11	3	69	13.5	6	28	456	75	305	150735	HP-63

Central support MUP (Order code: M)

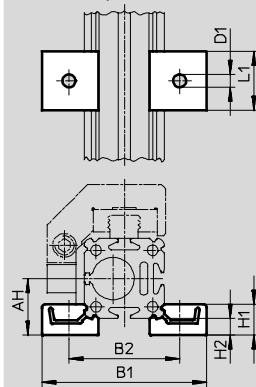
Material:
Galvanised steel

Free of copper, PTFE and silicone

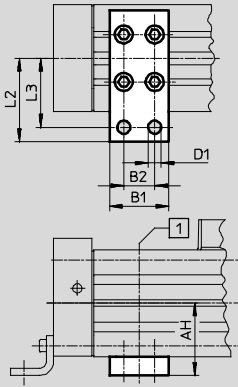


MUP-40

For sizes 18, 25



For sizes 32 ... 63



1 Position of the central support along the profile barrel is freely selectable

Dimensions and ordering data

For size	AH	B1	B2	D1 Ø	H1	H2	L1	L2	L3	Weight [g]	Part No.	Type
18	24	70.5	47	5.5	13	7	25	–	–	33	150736	MUP-18/25
25	29.5	81	58	5.5	13	7	25	–	–	33	150736	MUP-18/25
32	37	35	22	6.6	–	–	–	41.5	35	89	150737	MUP-32
40	46	35	22	6.6	–	–	–	47	40	126	150738	MUP-40
50	61	50	26	11	–	–	–	70	58	241	150739	MUP-50
63	69	50	26	11	–	–	–	77	65	340	150800	MUP-63

Passive guide axes FDG, without drive

FESTO

Accessories

Shock absorber YSR-...-C

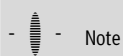
(Order code: C)

Material:

Housing: Galvanised steel; piston rod: high-alloy steel,

Seals: Perbunan, polyurethane

Free of copper, PTFE and silicone



Note

Shock absorber YSRW with progressive characteristic

→ Internet: ysrw

Ordering data		
For size	Weight [g]	Part No. Type
18	30	34571 YSR-8-8-C
25	70	34572 YSR-12-12-C
32	70	34572 YSR-12-12-C
40	140	34573 YSR-16-20-C
50	140	34573 YSR-16-20-C
63	240	34574 YSR-20-25-C

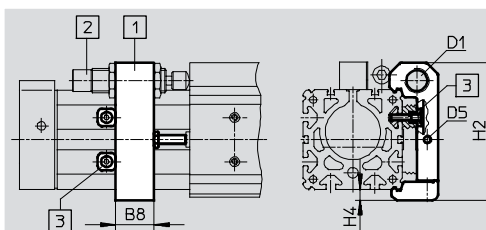
Shock absorber retainer KYP

(Order code: C)

Material:

Retainer: Aluminium

Sleeve: Steel, corrosion resistant



1 Shock absorber retainer KYP (if the retainer is in contact with the front cap, i.e. cap serves to secure the position, the entire stroke length can be utilised)

2 Shock absorber YSR-...-C
3 Position retainer (included in scope of delivery) either behind or underneath the shock absorber retainer KYP

Dimensions and ordering data							
For size	B8	D1	D5	H2	H4	Weight [g]	Part No. Type
18	14	M12x1	M4	50.5	4.5	66	158907 KYP-18
25	19	M16x1	M5	69.5	6	95	158908 KYP-25
32	25	M16x1	M5	80	8	130	158909 KYP-32
40	32	M22x1.5	M5	102	8	209	158910 KYP-40
50	35	M22x1.5	M8	124	10	415	158911 KYP-50
63	44	M26x1.5	M10	152.5	11.5	609	158912 KYP-63

Passive guide axes FDG, without drive

Accessories

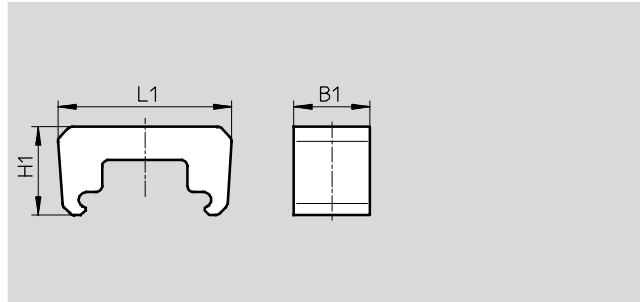
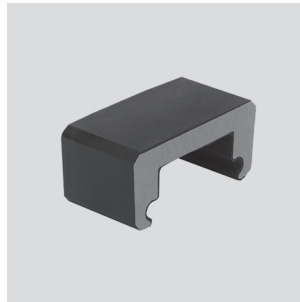
FESTO

Emergency buffer NPE

(Order code: A)

Material:

Polyurethane



Dimensions and ordering data						
For size	B1	L1	H1	Weight [g]	Part No.	Type
18	15	43.1	28.5	6	193901	NPE-18
25	25	57	29	12	193902	NPE-25
40	40	80.5	36	41	193904	NPE-40
63	60	128.6	55	152	193906	NPE-63

 Note

The emergency buffer can only be used in conjunction with shock absorber retainer KYP. → 21
(A threaded pin and nut are not required.)

Shock absorber DG-GA

for protected version GA

(Order code: E)

Material:

Housing: Galvanised steel; piston rod: high-alloy steel

Seals: Perbunan, polyurethane

Free of copper, PTFE and silicone



Ordering data			
For size	Weight [g]	Part No.	Type
25	70	192875	DG-GA-25-YSR
40	140	192877	DG-GA-40-YSR

Passive guide axes FDG, without drive

FESTO

Accessories

Sensor bracket HWS

For inductive proximity sensors

(Order code: T)

Material:

Galvanised steel

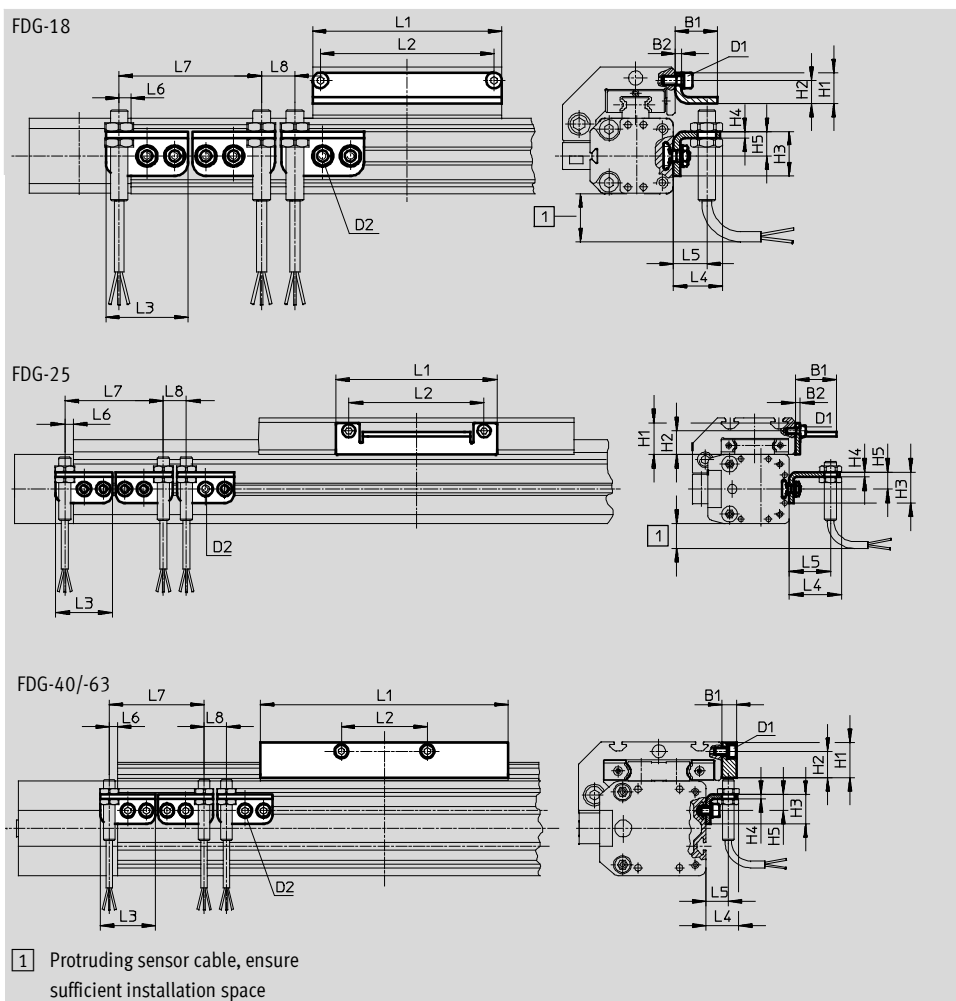


Switching lug SF

(Order code: L)

Material:

Galvanised steel



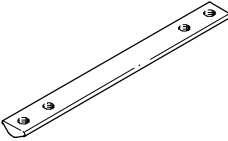
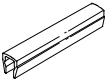
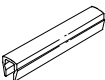
Dimensions and ordering data											
For size	D1	D2	B1	B2	H1	H2	H3	H4	H5	L1	L2
18	M4	M5	19	3	14	10.5	20	3	11	85	78
25	M5	M5	27	3	20.5	15.3	20	3	11	105	88
40	M5	M5	10	–	24	18	20	3	11	167	58
63	M8	M5	10	–	35	25	20	3	11	230	72

For size	L3	L4	L5	L6 max.	L7 min.	L8 min.	Weight [g]	Part No.	Type
18	37	22.5	15	5.5	64	15	30	188968	HWS-18/25-M8
							60	188964	SF-18
25	37	34.5	27	5.5	64	15	30	540780	HWS-25-MAB-M8
							80	540430	SF-25-MAB
40	37	22.5	15	5.5	64	15	40	188969	HWS-40-M8
							310	188966	SF-40
63	37	22.5	15	5.5	64	15	40	188970	HWS-63-M8
							630	188967	SF-63

Passive guide axes FDG, without drive

Accessories

FESTO

Ordering data						
	For size	Remarks	Order code	Part No.	Type	PU ¹⁾
Slot nut NST Technical data → Internet: nst						
	18, 25	For mounting slot	Y	526091	NST-HMV-M4	1
	32, 40			150914	NST-5-M5	1
	50, 63			150915	NST-8-M6	1
Slot nut NSTL Technical data → Internet: nstl						
	25	For slide	X	158410	NSTL-25	1
	32			158411	NSTL-32	1
	40			158412	NSTL-40	1
	50			158413	NSTL-50	1
	63			158414	NSTL-63	1
Centring pin/sleeve ZBS/ZBH Technical data → Internet: zbs, zbh						
	18	For slide	Z	150928	ZBS-5	10
	25 ... 63			150927	ZBH-9	10
Slot cover ABP Technical data → Internet: abp						
	32, 40	For mounting slot	B	151681	ABP-5	2
	50, 63	0.5 m each		151682	ABP-8	
Slot cover ABP-S Technical data → Internet: abp						
	18 ... 63	For sensor slot 0.5 m each	S	151680	ABP-5-S	2

1) Packaging unit quantity

Passive guide axes FDG, without drive

Accessories

FESTO

Ordering data – Inductive proximity sensors M8						Technical data → Internet: sien	
	Electrical connection		Switch output	LED	Cable length [m]	Part No.	Type
	Cables	M8 plug					
NO contact							
	3-wire	–	PNP	■	2.5	150386	SIEN-M8B-PS-K-L
	–	3-pin	PNP	■	–	150387	SIEN-M8B-PS-S-L
NC contact							
	3-wire	–	PNP	■	2.5	150390	SIEN-M8B-PO-K-L
	–	3-pin	PNP	■	–	150391	SIEN-M8B-PO-S-L

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