

Linear drives DGPL, with guide

FESTO

Type code

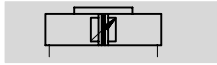
		DGPL	-	25	-	500	-	PPV	-	A	-	B	-	KF	-	KU	-	GK	-	SH	-	D2	-	CT	-	
Type																										
DGPL	Linear drive with slide																									
Piston Ø																										
Stroke [mm]																										
Cushioning																										
PPV	Adjustable end-position cushioning																									
Position sensing																										
A	Via magnet																									
Generation																										
B	B series																									
Guide																										
GF	Plain-bearing guide																									
KF	Recirculating ball bearing guide																									
Clamping unit																										
KU	Underneath																									
Slide																										
GK	Standard slide																									
GV	Extended slide																									
Slide attachment position																										
SH	Slide at rear																									
SV	Slide at front																									
Supply port																										
D2	Supply port at both ends																									
Special materials																										
CT	Free of copper and PTFE																									
Protected version																										
GA	Protected version																									

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Technical data

Function

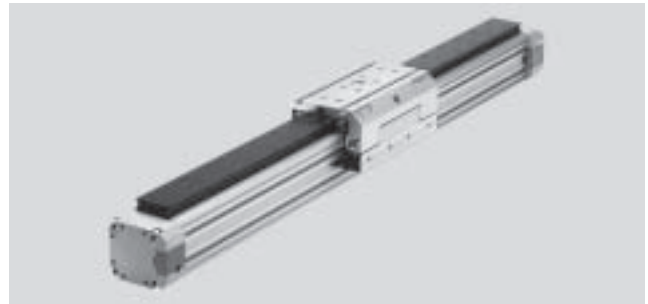


Spare parts service

Wearing parts kits

→ 44

- Ø - Diameter
18 ... 80 mm
- I - Stroke length
1 ... 3000 mm



General technical data							
Piston Ø	18	25	32	40	50	63	80
Constructional design	Pneumatic linear drive with slide						
Protection against torsion/guide	Guide rail with slide and plain-bearing guide GF or recirculating ball bearing guide KF						
Mode of operation	Double-acting						
Driver principle	Positive-locking (slot)						
Mounting position	Any						
Pneumatic connection	M5	G1/8		G1/4		G3/8	G1/2
Stroke length	[mm]	10 ... 1800 10 ... 3000 ¹⁾					
Cushioning	Adjustable at both ends						
	Self-adjusting at both ends						
Cushioning length (PPV)	[mm]	16	18	20	30		83
Position sensing	Via magnet						
Max. speed	GF	[m/s]	1				
	KF	[m/s]	3				
	GA	[m/s]	–	3		–	

1) With effective strokes of over 2000 mm the installation of the drive unit must be with the sealing strip facing down; longer strokes available on request.

Operating and environmental conditions							
Piston Ø	18	25	32	40	50	63	80
Operating medium	Filtered compressed air, lubricated or unlubricated						
Operating pressure [bar]	2 ... 8			1.5 ... 8			
Ambient temperature ¹⁾ [°C]	-10 ... +60						
Corrosion resistance for variant GF	CRC ²⁾	2					

1) Note operating range of proximity sensors.

2) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Forces [N] and impact energy [Nm]							
Piston Ø	18	25	32	40	50	63	80
Theoretical force at 6 bar	153	295	483	754	1178	1870	3016
Impact energy	→ 36						