

1.3 Mini slide DPGB

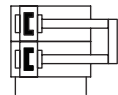
The cylinder diameter of this series of slide type cylinders ϕ 6~25, integrated design of sliding table and connecting plate, mainly used for grabbing and releasing units in grabbing systems, with excellent cost-effectiveness.



Summary

The cylinder diameter of this series of slide type cylinders ϕ 6~25, integrated design of sliding table and connecting plate, mainly used for grabbing and releasing units in grabbing systems, with excellent cost-effectiveness.

Diagram Product features



- Precise and resilient roller bearing guide
- Compact structure, large feed force
- Simple design with symmetrical mounting interfaces

Technical parameter

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

Model selection

DPGB	-16	×20	A	-P
Slide DPGB	①	②	③	④
①	-Size : 6 8 10 12 16 20 25			
②	× Stroke 10...200mm			
③	-Position sensing: A= With magnetic sensing			
④	-Cushion: P: Elastic cushioning rings/plates on both sides P1: Elastomer cushioning, adjustable on both sides, with fixed stop E: Elastomer cushioning, short, on both sides E1: Elastomer cushioning, double-sided, stroke not adjustable Y12: Shock absorber, self-adjusting, linear at both ends, external (stroke>30 mm)			

Stroke datasheet

Mini slide DPGB							
Size [mm]	6	8	10	12	16	20	25
Stroke [mm]	10	10	10	10	10	10	10
	20	20	20	20	20	20	20
	30	30	30	30	30	30	30
	40	40	40	40	40	40	40
	50	50	50	50	50	50	50
	-	80	80	80	80	80	80
	-	-	100	100	100	100	100
	-	-	-	-	125	125	125
	-	-	-	-	150	150	150
	-	-	-	-	-	200	200

- Technical parameter

General technical data							
Size [mm]	6	8	10	12	16	20	25
Design	Twin piston, piston rod, slide, yoke						
Guide	Recirculating ball bearing guide				Three-part cage guide		
Operating mode	Double-acting						
Type of mounting	With through-hole						
	Via female thread						
Pneumatic connection	M3	M5	G1/8				
Stroke ¹⁾ [MM]	10 ... 50	10 ... 80	10 ... 100	10 ... 100	10 ... 150	10 ... 200	10 ... 200
Max. cushioning length							
DPGB-...-P/-E [MM]	0.9	1.5	1.5	1.3	1	1.2	1.2
DPGB-...-P1 [MM]	1.7	2.8	3.1	3.4	3.7	-	-
DPGB-...-E1 ²⁾ [MM]	0.25/0.9	0.5/1.5	0.6/1.6	0.5/1.1	0.6/0.8	0.5/1	0.5/1.2
DPGB-...-Y12 [MM]	4	4	4	5	5	8	10
Position sensing	Via magnetic switch						
Mounting position	Any						

- Technical parameter

Max. speed							
Size [mm]	6	8	10	12	16	20	25
DPGB-...-P/-E [m/s]	0.9	1.5	1.5	1.3	1	1.2	1.2
DPGB-...-P1 [m/s]	1.7	2.8	3.1	3.4	3.7	-	-
DPGB-...-E1 [m/s]	0.25/0.9	0.5/1.5	0.6/1.6	0.5/1.1	0.6/0.8	0.5/1	0.5/1.2
DPGB-...-Y12 [m/s]	4	4	4	5	5	8	10
Position sensing	Via magnetic switch						
Mounting position	Any						
Repetition accuracy							
DPGB-...-P/-E/-E1 [mm]	≤ 0.3						
DPGB-...-P1 ³⁾ /-Y12 [mm]	≤ 0.02						

- 1) For DPGB-...-E1, the actual stroke is slightly longer
- 2) Advanced end position/retracted end position
- 3) P1 only available for sizes 6 ... 16

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

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

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

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

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

Permissible impact velocity:

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

Maximum permissible mass:

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

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

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

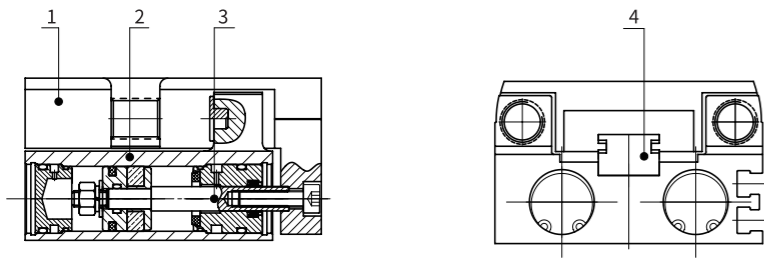
Permissible impact velocity:

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

Maximum permissible mass:

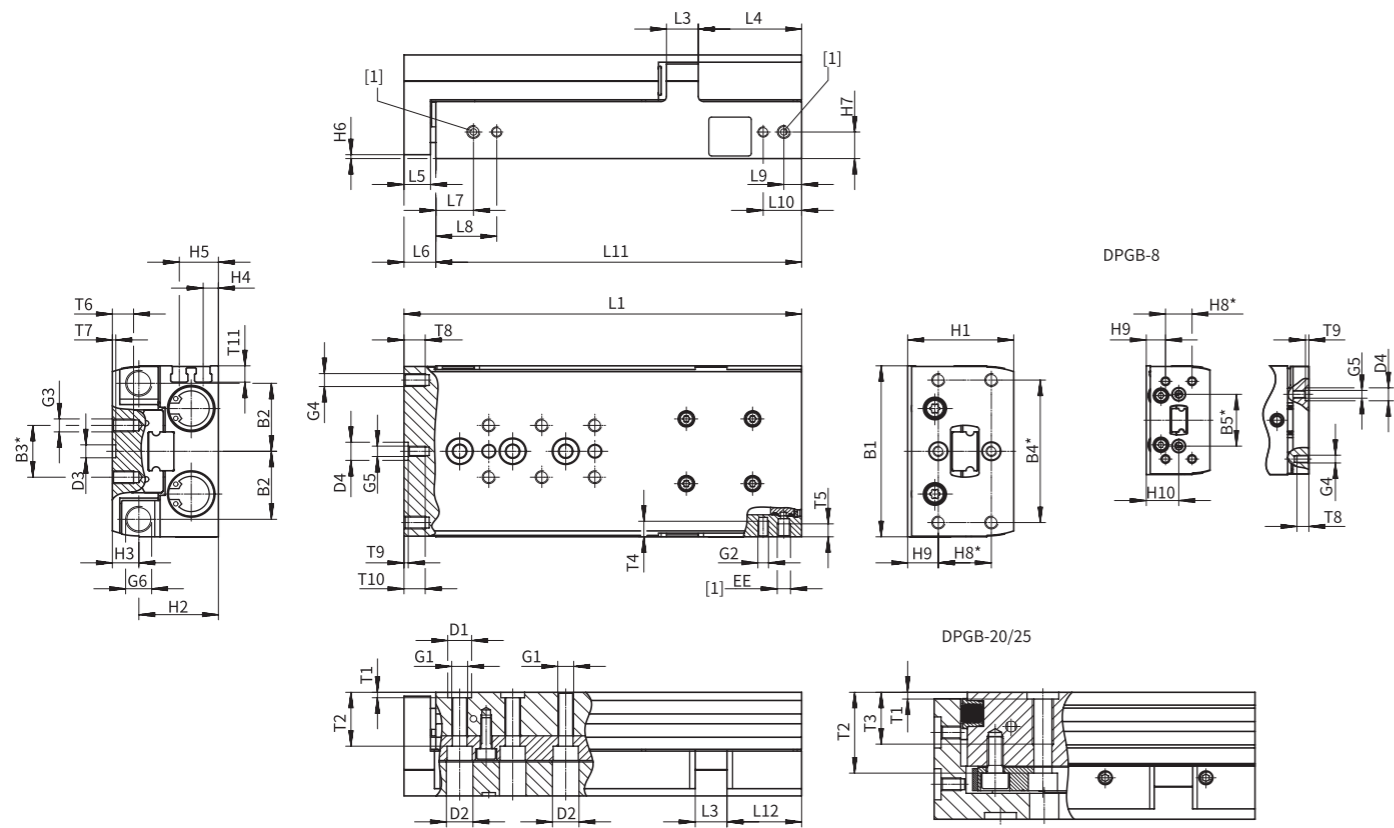
$$m_2 = \frac{E - F \cdot s}{\frac{1}{2} \cdot v^2 + g \cdot s \cdot \sin(\alpha)} - m_1$$

Diagrams



Mini slide DPGB		
[1]	Slide	Anodised wrought aluminium alloy
[2]	Housing	Anodised wrought aluminium alloy
[3]	Piston rod	High-alloy stainless steel
[4]	Guide	High-alloy stainless steel, POM, TPE
-	Seals	HNBR

Dimensions



[1]= Supply ports
 * = ±0.02 mm applies to the centring
 = ±0.1 mm applies to the thread

-Dimensions

Size	B1	B2	B3±0.1	B4±0.1	B5	D1φH7	D2φ	D3φH7	D4φ	EE	G1	G2	G3	G4
6	35	14.4	10	30	-	5	6	5	2H8	M3	M4	M3	M3	M3
8	42	17	10	30	20	5	6	5	5H7	M5	M4	M3	M3	M3
10	50	20.8	20	40	-	7	8	5	5H7	M5	M5	M4	M4	M4
12	60	24.5	20	40	-	7	8	5	7H7	M5	M5	M4	M4	M4
16	66	26.3	20	55	-	9	10	5	7H7	M5	M6	M4	M5	M5
20	85	34.5	40	70	-	12	11	12	12H7	G1/8	M8	M5	M5	M5
25	104	42	40	80	-	12	11	12	12H7	G1/8	M8	M6	M6	M6

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

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

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

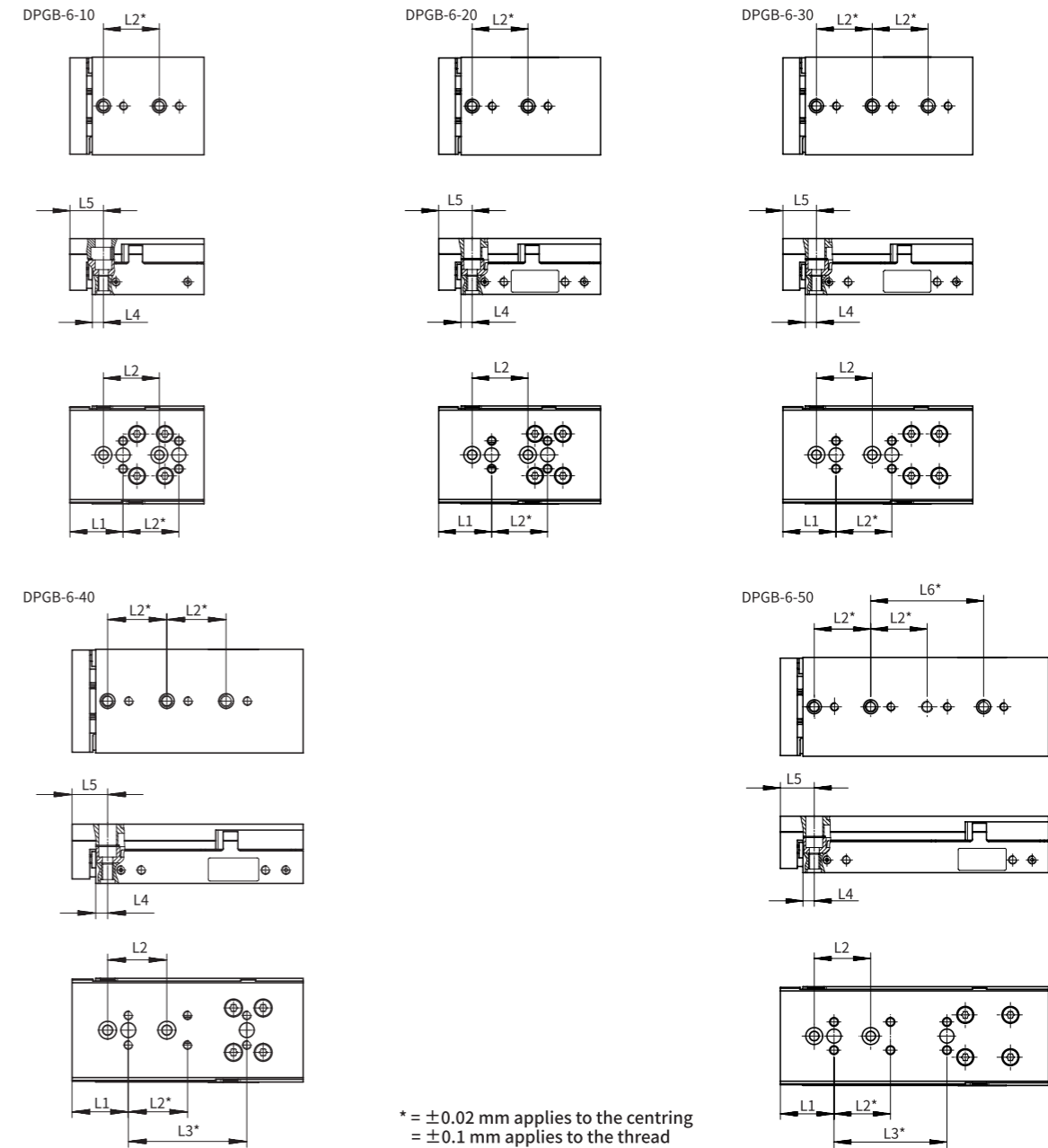
-Dimensions

Stroke [mm]	10	20	30	40	50	80	100	125	150	200
Size	L1 ¹⁾									
6	48	58	68	78	95	-	-	-	-	-
8	51	61	71	81	95	126	-	-	-	-
10	66	68	78	88	98	136	156	-	-	-
12	66	76	86	96	106	136	169.5	-	-	-
16	73	80	87	97	112	150	170	210	235	-
20	97	97	97	107	121	166	204.5	244	279	343
25	102	102	108	118	128	168	207	246	281	345
Size	L11									
6	40	50	60	70	87	-	-	-	-	-
8	43	53	63	73	87	118	-	-	-	-
10	56	58	68	78	88	126	146	-	-	-
12	56	66	76	86	96	126	159.5	-	-	-
16	61	68	75	85	100	138	158	198	223	-
20	84.5	84.5	84.5	94.5	108.5	153.5	192	231.5	266.5	330.5
25	87.5	87.5	93.5	103.5	113.5	153.5	192.5	231.5	266.5	330.5
Size	L12									
6	16	16	16	16	22	-	-	-	-	-
8	15.7	15.7	15.7	15.7	19.7	20.7	-	-	-	-
10	24.6	16.6	16.6	16.6	16.6	24.6	24.6	-	-	-
12	20.6	20.6	20.6	20.6	20.6	20.6	34.1	-	-	-
16	21.2	18.2	15.2	15.2	20.2	28.2	28.2	39	39	-
20	39.5	29.5	19.5	19.5	23.5	38.5	51	51	51	51
25	36.5	26.5	22.5	22.5	22.5	32.5	51.5	65	65	65
Size	T6 (max.) ³⁾									
6	4	4	4	4	4	-	-	-	-	-
8	5.5	5.5	5.5	5.5	5.5	5.5	-	-	-	-
10	4.5	4.5	4.5	4.5	4.5	7.5	7.5	-	-	-
12	5.2	5.2	5.2	5.2	5.2	8	8	-	-	-
16	7.2	7.2	7.2	7.2	7.2	8	8	8	8	-
20	8	8	8	8	8	8	8	8	8	8
25	11	11	11	11	11	11	11	11	11	11

1) At an operating pressure of 6 bar for variant E1.
 2) Not available in sizes 6 and 8 with stroke 10 mm. For size 16 with stroke 80 ... 150 mm, the dimension is 14.5 mm.
 3) Max. screw-in depth.

-Dimensions

Hole pattern for mounting threads and centering holes DPGB-6-10-50

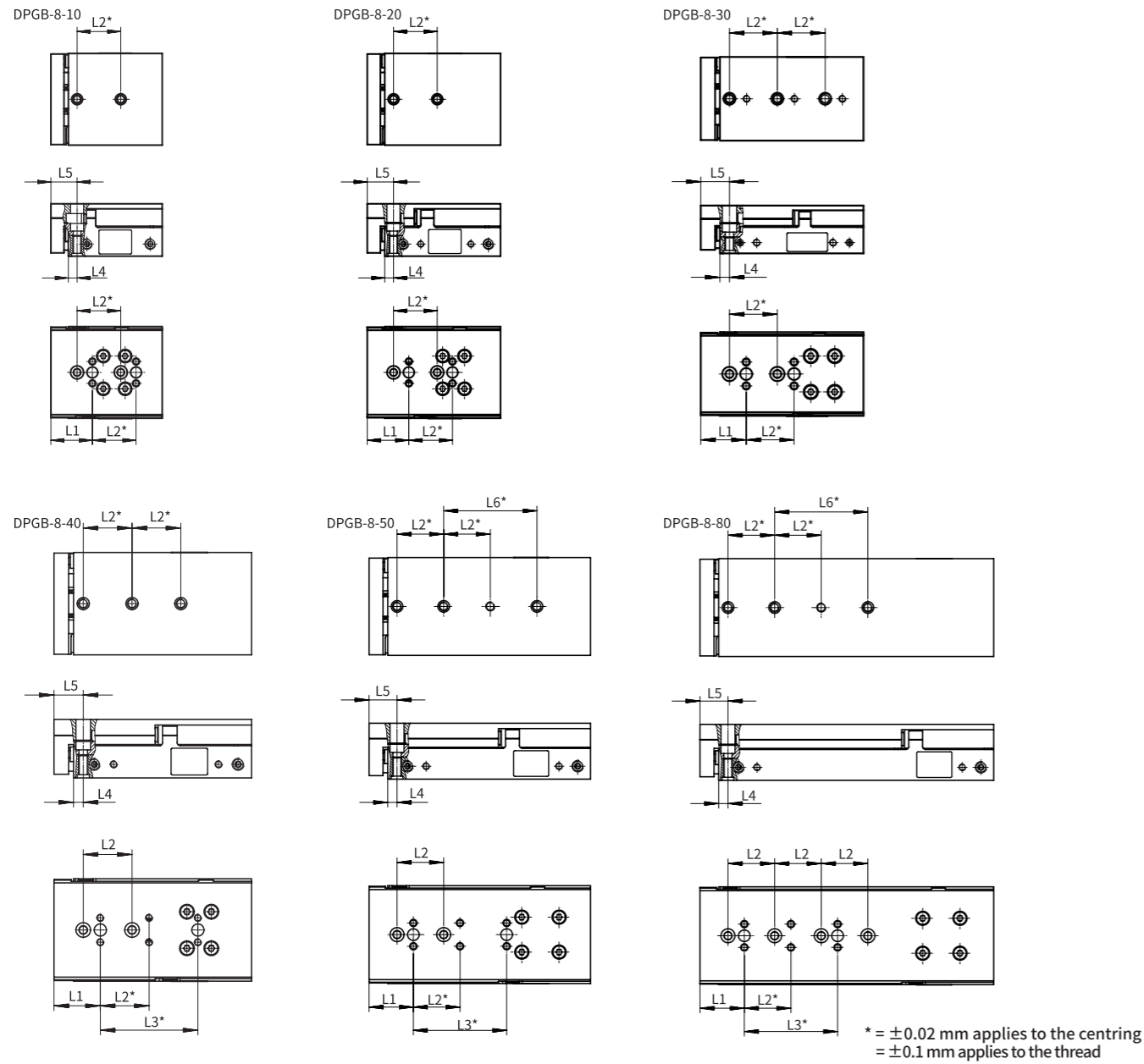


* = ±0.02 mm applies to the centring
 = ±0.1 mm applies to the thread

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

-Dimensions

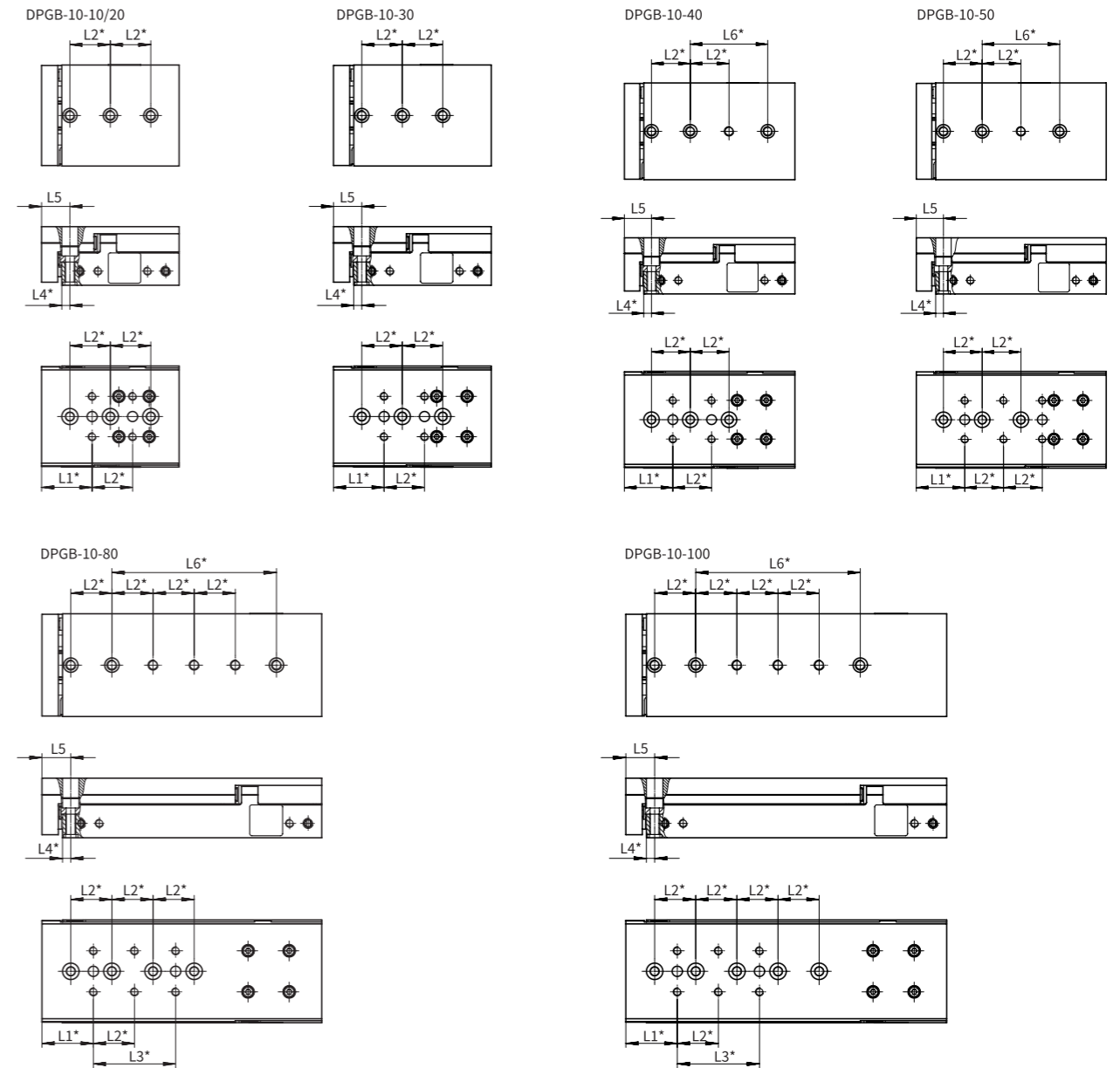
Hole pattern for mounting threads and centering holes DPGB-8-10~80



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

-Dimensions

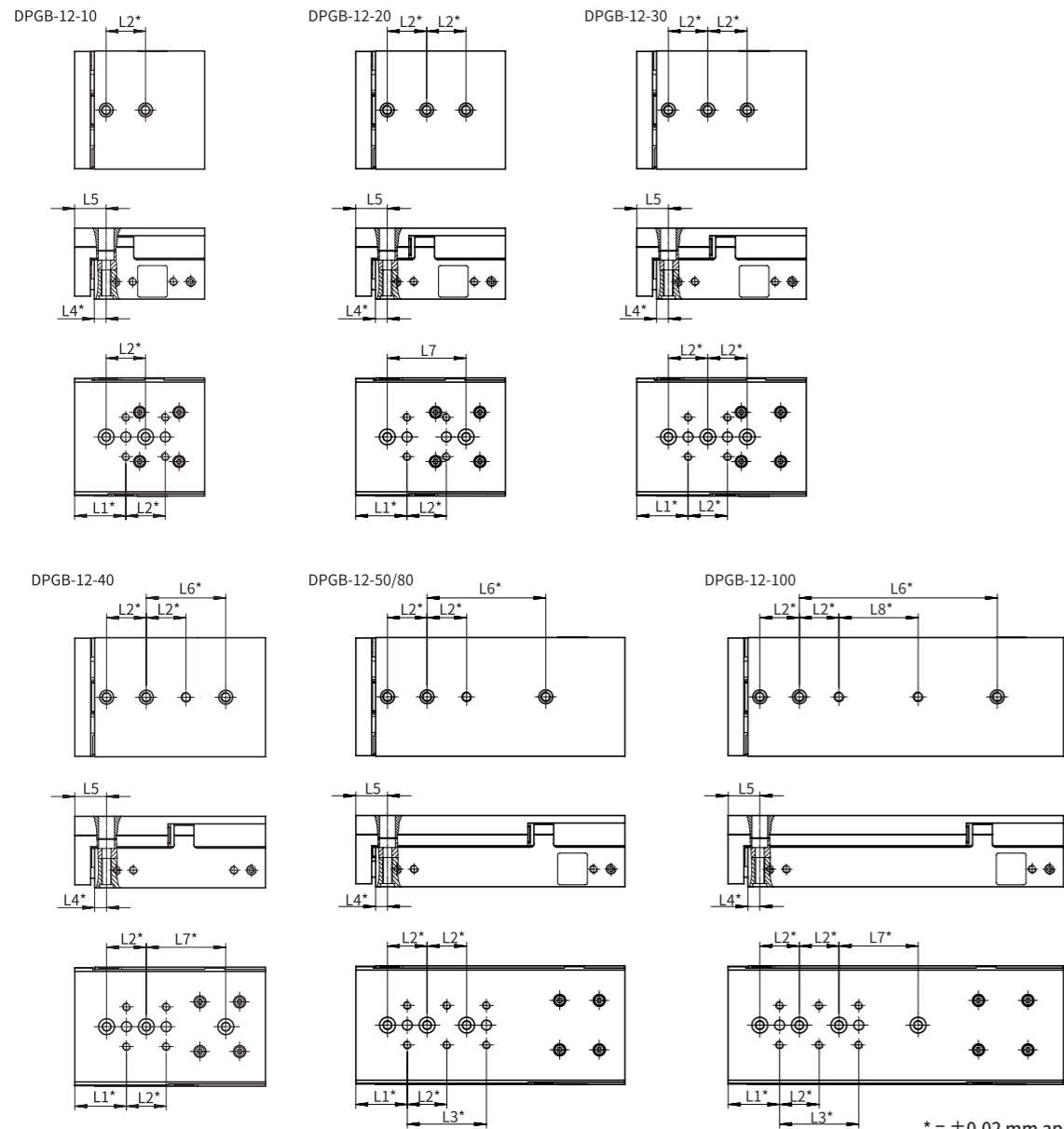
Hole pattern for mounting threads and centering holes DPGB-10-10~100



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

-Dimensions

Hole pattern for mounting threads and centering holes DPGB-12-10~100

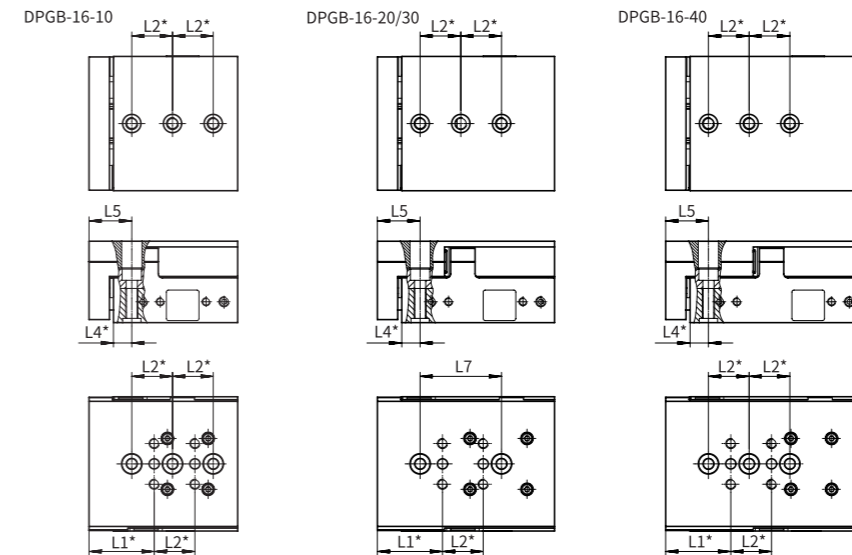


* = ±0.02 mm applies to the centring
= ±0.1 mm applies to the thread

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

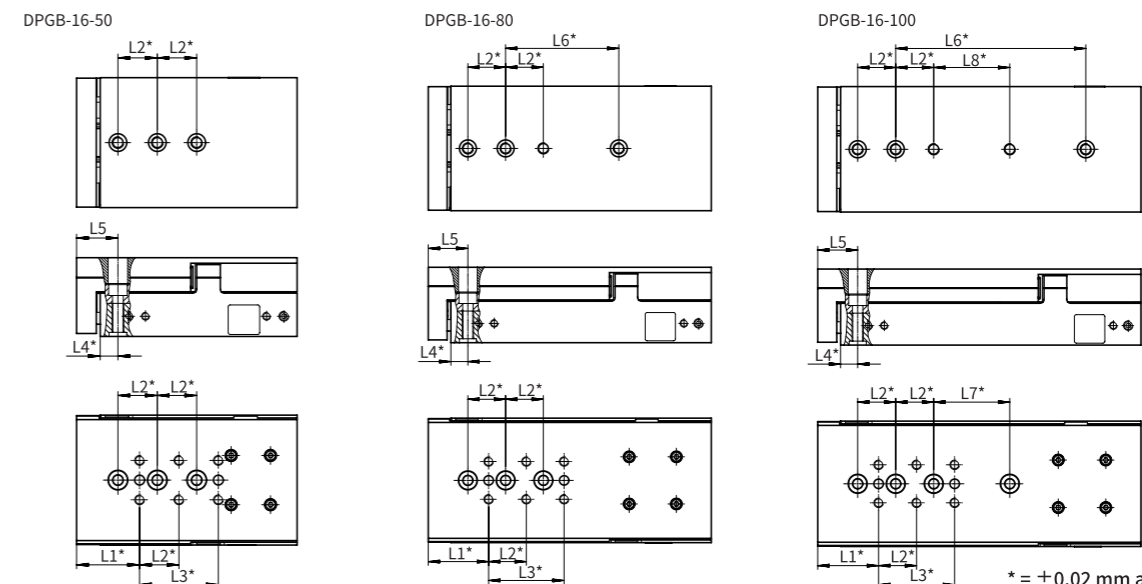
-Dimensions

Hole pattern for mounting threads and centering holes DPGB-16-10~40



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

Hole pattern for mounting threads and centering holes DPGB-16-50~100

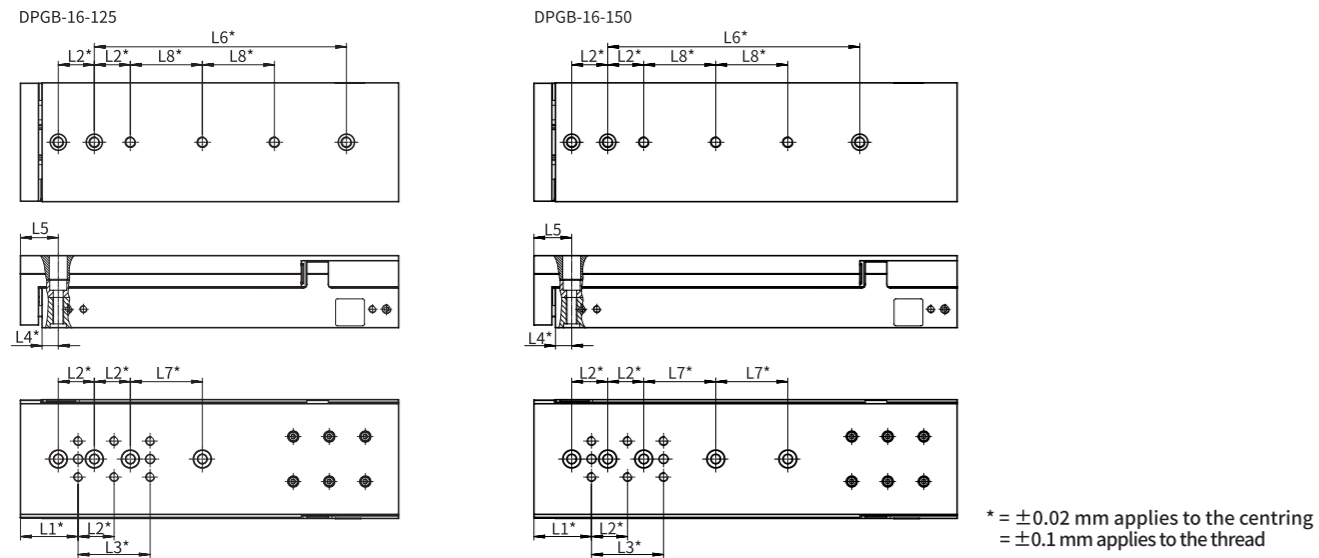


* = ±0.02 mm applies to the centring
= ±0.1 mm applies to the thread

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

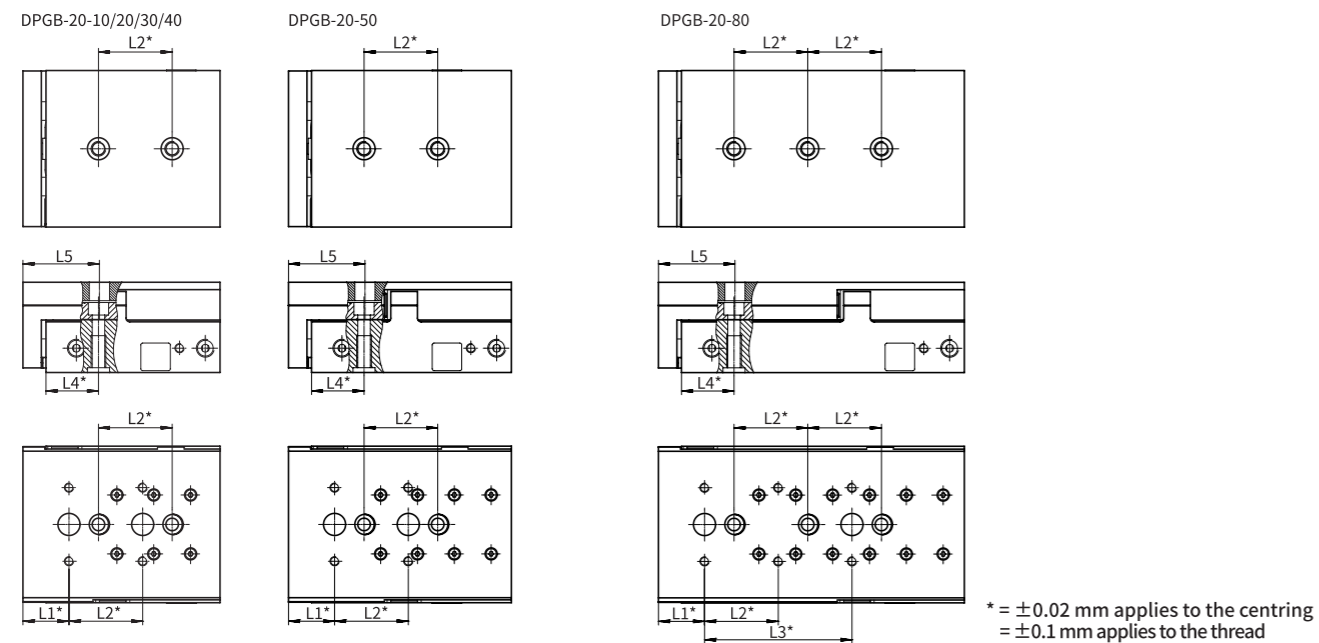
-Dimensions

Hole pattern for mounting threads and centering holes DPGB-16-125~150



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

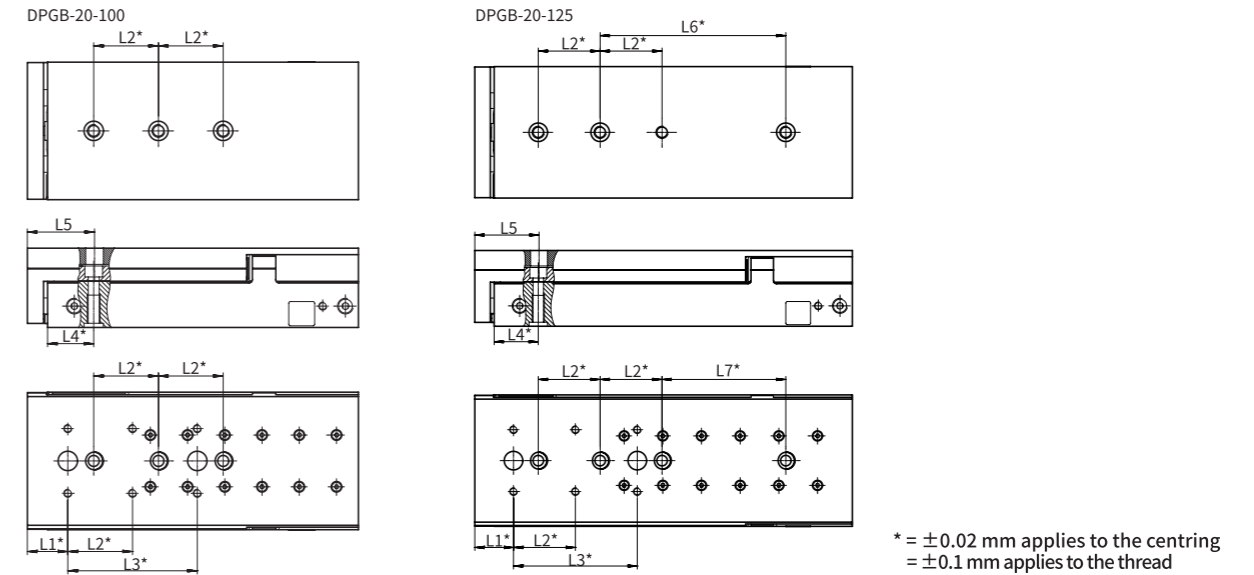
Hole pattern for mounting threads and centering holes DPGB-20-10~80



Size	Stroke [mm]	L1	L2	L3	L4	L7
20	10	25	40	-	28.5	41.5
	20			-		
	30			-		
	40			-		
	50			-		
	80			80		

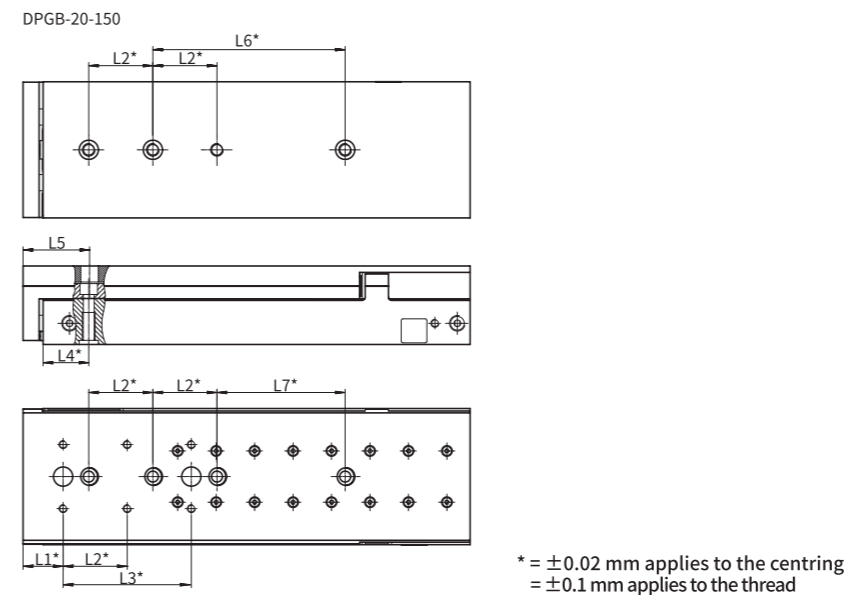
-Dimensions

Hole pattern for mounting threads and centering holes DPGB-20-100~125



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

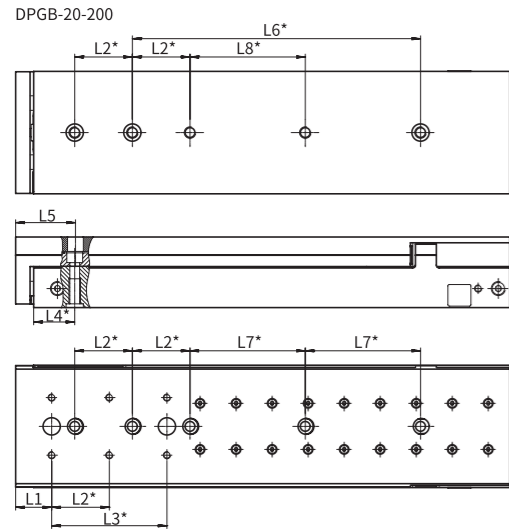
Hole pattern for mounting threads and centering holes DPGB-20-150



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

-Dimensions

Hole pattern for mounting threads and centering holes DPGB-20-200

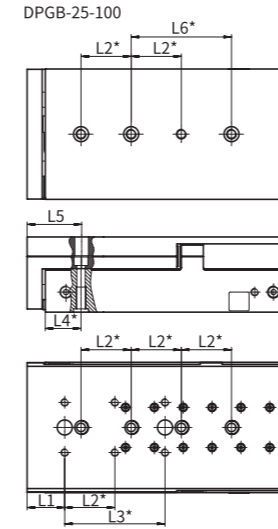


* = ±0.02 mm applies to the centring
= ±0.1 mm applies to the thread

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

-Dimensions

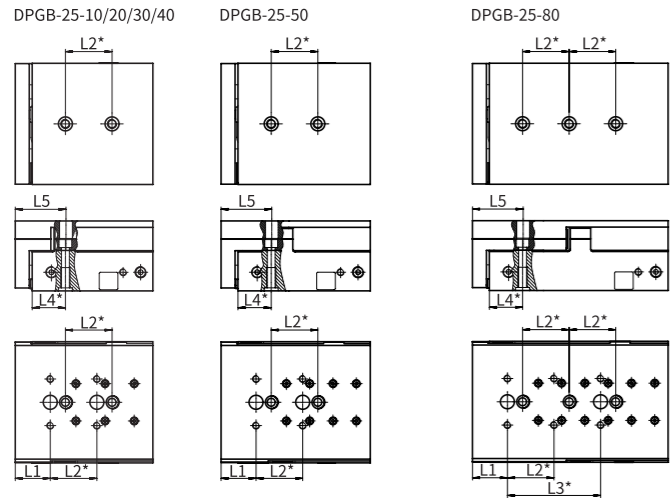
Hole pattern for mounting threads and centering holes DPGB-25-100



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

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

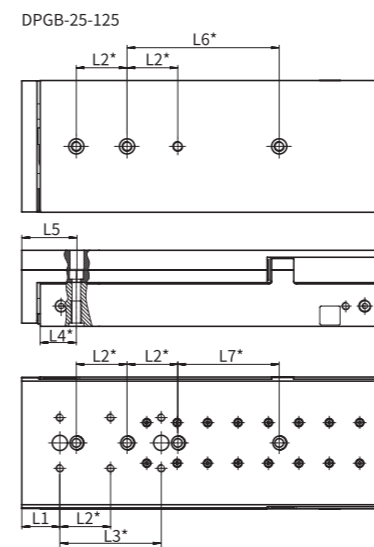
Hole pattern for mounting threads and centering holes DPGB-25-10-80



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

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

Hole pattern for mounting threads and centering holes DPGB-25-125

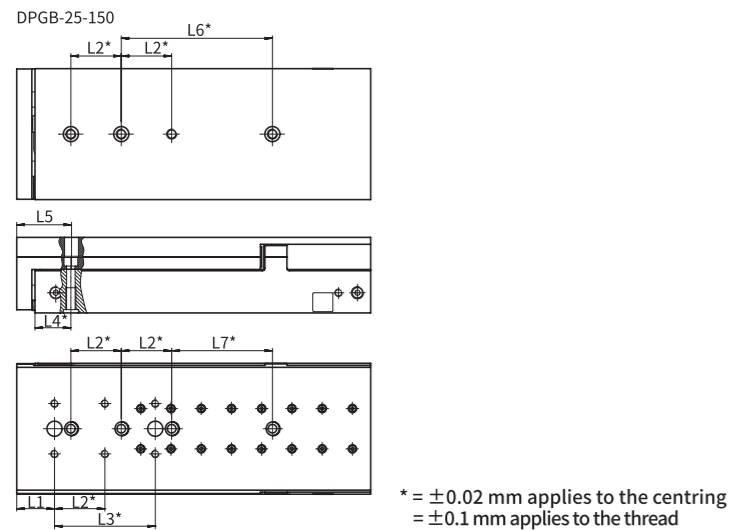


* = ±0.02 mm applies to the centring
= ±0.1 mm applies to the thread

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

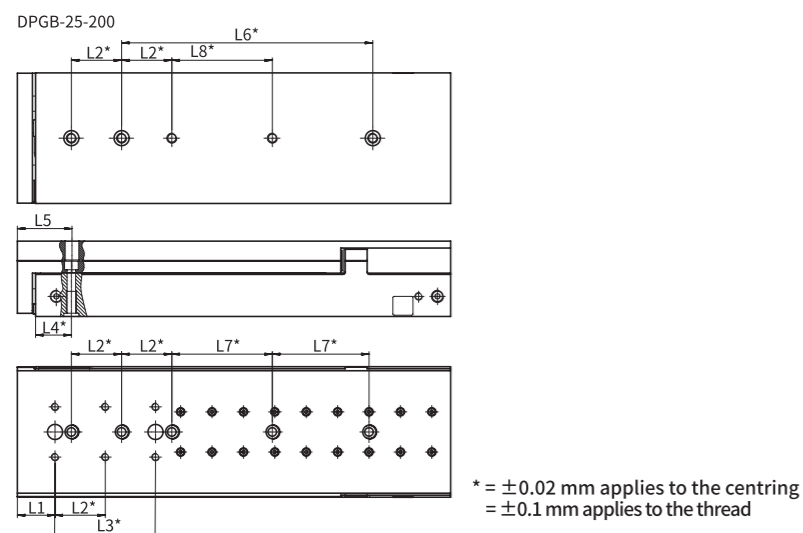
-Dimensions

Hole pattern for mounting threads and centering holes DPGB-25-150



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

Hole pattern for mounting threads and centering holes DPGB-25-200

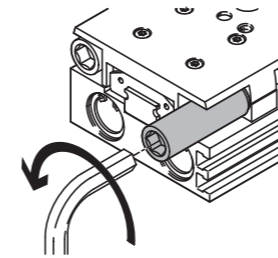


Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
25	200	30	40	80	28.5	43.5	200	80	80

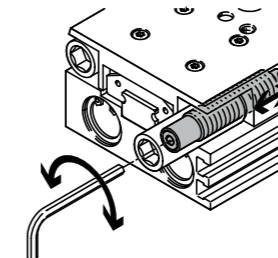
Adjustable end-position range

Method of mounting

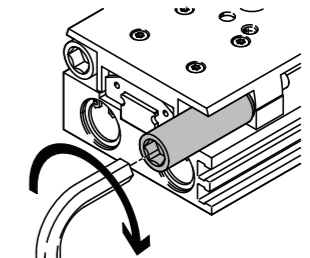
Precision adjustment of the advanced and retracted end positions , The required stroke reduction can be precisely adjusted with the cushioning components.



Step1:Screw the cushioning component and sleeve into the holder using a hex wrench until the stop is reached



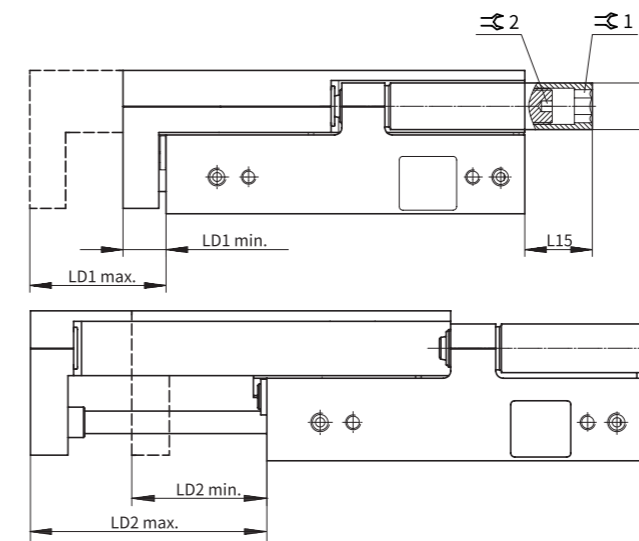
Step2: Set the exact end position using a smaller hex wrench



Step3: Secure the cushioning component by tightening the sleeve

End-position adjustment

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



Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀ 1	⌀ 2
			Setting range	min.	max.	Settingrange	max.	min.			
6	10	6	10.4	8.6	19	10.4	19	8.6	6	3	1.5
	20		11.6		20.2	13.1	29	15.9			
	30						39	25.9			
	40						49	35.9			
	50						59	45.9			
8	10	7	10	9.1	19.1	10	19.1	9.1	14.8	4	1.5
	20		14.4		23.5	16.3	29.1	12.8			
	30						39.1	22.8			
	40						49.1	32.8			
	50						59.1	42.8			
	80						89.1	72.8			
					9.8						

-Adjustable end-position range

-- End-position adjustment

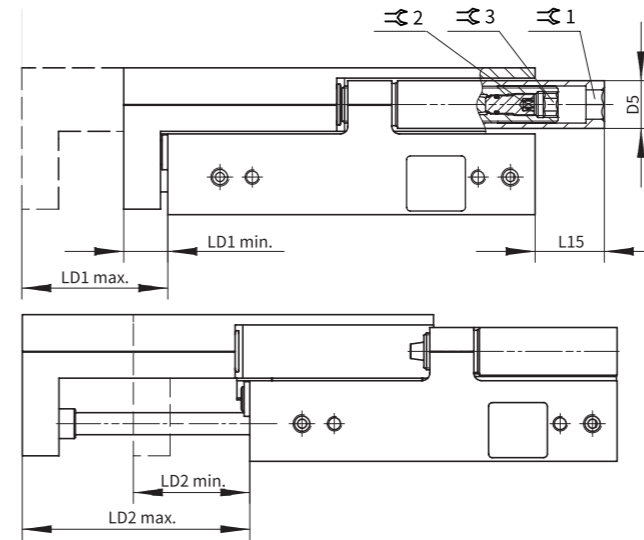
-DPGB-...-P: Setting dimension and projection in the end positions

Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀1	⌀2	
			Setting range	min.	max.	Setting range	max.	min.				
10	10	8	10	11.1	21.1	10	21.1	11.1	6.4	5	2	
	20		15.1		26.2	16.7	31.1	14.4	13.9			
	30						41.1	24.4				
	40						51.1	34.4				
	50						61.1	44.4				
	80						91.1	74.4				
	100		111.1		94.4	5.9						
12	10	10	10.1	10.9	21	10.1	21	10.9	15.4	6	2.5	
	20		20.1		31	20.1	31	10.9				
	30		20.8		31.7	22.1	41	18.9				1.9
	40						51	28.9				
	50						61	38.9				
	80						91	68.9				
	100						111	88.9				
16	10	13	10.3	12.7	23	10.3	23	12.7	17.85	8	3	
	20		20.3		33	20.3	33	12.7				20.85
	30		21.5		34.2	22.8	43	20.2				23.85
	40						53	30.2				18.85
	50						63	40.2				10.85
	80						93	70.2				0
	100						113	90.2				0
	125		138		115.2	0						
150	163	140.2	0									
20	10	15	10.1	13.1	23.2	10.1	23.2	13.1	11.5	10	4	
	20		20.1		33.2	20.1	33.2	13.1				21.5
	30		30.1		43.2	30.1	43.2	13.1				31.5
	40		31.1		44.2	32.9	53.2	20.3				27.5
	50						63.2	30.3				12.5
	80						93.2	60.3				0
	100						113.2	80.3				0
	125						138.2	105.3				0
	150		163.2		130.3	0						
	200		213.2		180.3	0						
25	10	18	10.2	15.3	25.5	10.2	25.5	15.3	28.5	10	4	
	20		20.2		35.5	20.2	35.5	15.3				38.5
	30		30.2		45.5	30.2	45.5	15.3				42.5
	40		40.2		55.5	40.2	55.5	15.3				42.5
	50		45.4		60.7	47	65.5	18.5				32.5
	80						95.5	48.5				13.5
	100						115.5	68.5				0
	125						140.5	93.5				0
	150						165.5	118.5				0
	200		215.5		168.5	0						

-Adjustable end-position range

-- End-position adjustment

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



Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀1	⌀2	⌀3	
			Setting range	min.	max.	Setting range	max.	min.					
6	10	6	9.9	8.6	18.5	11.5	19	7.5	6	3	1.5	2.5	
	20						29	17.5					
	30						39	27.5					
	40						49	37.5					
	50						59	47.5					0
8	10	7	12.3	8.7	21	13.5	18.8	5.3	14.8	4	1.5	3	
	20						28.8	15.3					
	30						38.8	25.3					
	40						48.8	35.3					
	50						58.8	45.3					10.8
8	80						88.8	75.3	9.8				
	10	10	8	13.3	10.7	24	14.4	20.8	6.4	14.4	5	2	4
		20						30.8	16.4				
		30						40.8	26.4				
		40						50.8	36.4				
50		60.8						46.4					
80	90.8	76.4	6.4										
100	110.8	96.4	6.4										
12	10	10	17.4	10.6	28	18.4	20.8	2.4	15.4	6	2.5	5	
	20						30.8	12.4					
	30						40.8	22.4					
	40						50.8	32.4					
	50						60.8	42.4					
	80						90.8	72.4					
	100						110.8	92.4					1.9

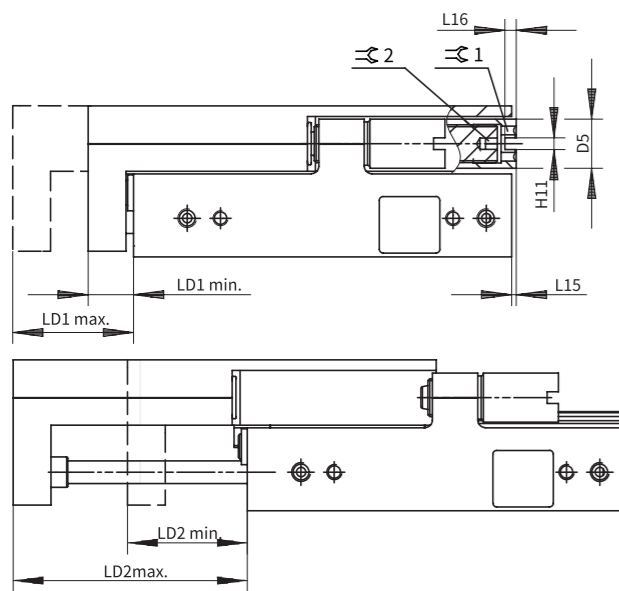
-Adjustable end-position range

-- End-position adjustment

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

Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀1	⌀2	⌀3
			Setting range	min.	max.	Setting range	max.	min.				
16	10	13	16.4	12.6	29	17.4	22.8	5.4	6.2	8	3	6
	20						32.8	15.4				
	30						42.8	25.4				
	40						52.8	35.4				
	50						62.8	45.4				
	80						92.8	75.4				
	100						112.8	95.4				
	125						132.8	115.4				
150	162.8	154.4										

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



Size	Stroke [mm]	D5φ	H11	Retracted end position LD1			Advanced end position LD2			L15	L16	⌀1	⌀2
				Setting range	min.	max.	Setting range	max.	min.				
6	10	6	1.6	7	9	16	8.5	19.5	11	-	1.5	3	1.5
	20							29.5	21				
	30							39.5	31				
	40							49.5	41				
8	50	7	1.6	6.1	9.8	15.9	6.9	59.5	51	-	1.5	4	1.5
	10							19.2	12.3				
	20							29.2	22.3				
	30							39.2	32.3				
	40							49.2	42.3				
80	89.2	82.3											

-Adjustable end-position range

-- End-position adjustment

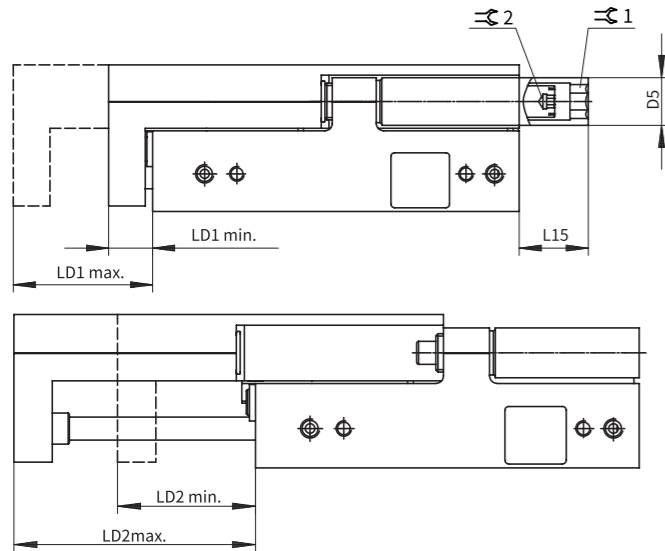
-DPGB-...-E: Setting dimension and projection in the end positions

Size	Stroke [mm]	D5φ	H11	Retracted end position LD1			Advanced end position LD2			L15	L16	⌀1	⌀2
				Setting range	min.	max.	Setting range	max.	min.				
10	10	8	2.1	5.6	11.7	17.3	6.3	21.3	15	-	2	5	2
	20							31.3	25				
	30							41.3	35				
	40							51.3	45				
	50							61.3	55				
	80							91.3	85				
	100							111.3	105				
12	10	10	2.6	7.4	11.3	18.7	7.6	21.4	13.8	-	2.5	6	2.5
	20							31.4	23.8				
	30							41.4	33.8				
	40							51.4	43.8				
	50							61.4	53.8				
	100							111.4	103.8				
16	10	13	3.1	6.2	13	19.2	6.4	23.4	17	6.2	3	8	3
	20							33.4	27				
	30							43.4	37				
	40							53.4	47				
	50							63.4	57				
	80							93.4	87				
	100							113.4	107				
	125							138.4	132				
	150							163.4	157				
	20							10	15				
20		33.5	26.5										
30		43.5	36.5										
40		53.5	46.5										
50		63.5	56.5										
80		93.5	86.5										
100		113.5	106.5										
125		138.5	131.5										
200		213.5	206.5										
25		10	18	4.1	6	15.6	21.6	6.3		25.8	19.5	4.2	4
	20	35.8							29.5				
	30	45.8							39.5				
	40	55.8							49.5				
	50	65.8							59.5				
	80	95.8							89.5				
	100	115.8							109.5				
	125	140.8							134.5				
	150	165.8							159.5				
	200	215.8							209.5				

-Adjustable end-position range

-· End-position adjustment

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



Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀ 1	⌀ 2
			Setting range	min.	max.	Setting range	max.	min.			
6	30	6	9.6	8.6	18.2	11.2	39	27.8	6	3	- ¹⁾
	40						49	37.8			
	50						59	47.8			
8	30	7	15.7	9.1	24.8	17.6	39.1	21.5	14.8	4	2
	40						49.1	31.5			
	50						59.1	41.5			
	80						89.1	71.5			
10	30	8	14.5	11.1	25.6	16.2	41.1	24.9	13.9	5	2
	40						51.1	34.9			
	50						61.1	44.9			
	80						91.1	74.9			
	100						111.1	94.9			
12	30	10	15.2	10.9	26.1	16.7	41	24.3	15.4	6	2.5
	40						51	34.3			
	50						61	44.3			
	80						91	74.3			
	100						111	94.3			

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

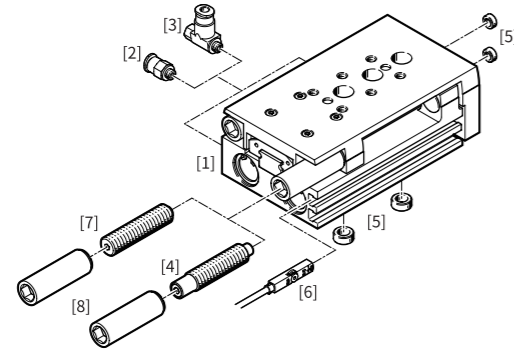
-Adjustable end-position range

-· End-position adjustment

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

Size	Stroke [mm]	D5φ	Retracted end position LD1			Advanced end position LD2			L15	⌀ 1	⌀ 2
			Setting range	min.	max.	Setting range	max.	min.			
16	30	13	15.5	12.7	28.2	16.9	43	26.1	23.85	8	3
	40						53	36.1			
	50						63	46.1			
	80						93	76.1			
	100						113	96.1			
	125						138	121.1			
	150						163	146.1			
20	30	15	25.9	13.1	39	27.7	22.1	43.2	31.5	10	4
	40						53.2	25.5			
	50						63.2	35.5			
	80						93.2	65.5			
	100						113.2	85.5			
	125						138.2	110.5			
	150						163.2	135.5			
	200						213.2	185.5			
25	30	18	30.4	15.3	45.7	32	20.2	45.5	42.5	10	4
	40						30.2	55.5			
	50						65.5	33.5			
	80						95.5	63.5			
	100						115.5	83.5			
	125						140.5	108.5			
	150						165.5	133.5			
	200						215.5	183.5			

Peripherals overview



List of installation components and accessories

Serial number	Code	Names	Description
1	DPGB	Mini slide DPGB	Compact design
2	PC	Push-in fitting	For connecting tubing with standard O.D.
3	NSE	One-way flow control valve	For regulating velocity
4	Y12	Cushioning	Shock absorber, self-adjusting, linear, at both ends, external
5	DWT	centering sleeve	• For centering loads and attachments
6	C	Magnetic switch	For position sensing Can be integrated in the sensor slot, so it does not protrude
7	P	Cushioning	Elastic cushioning rings/plates at both ends
	P1		Elastomer cushioning, adjustable at both ends, with fixed stop
	E		Elastomer cushioning, short, at both ends
8	/	Threaded sleeve	• For mounting the cushioning components • Included in the scope of delivery for cushioning

Shock absorbers

Name	For size	Description	Name	For size	Description
For DPGB-...-P			For DPGB-...-P1		
	6 ~ 25	• Elastic cushioning rings/plates at both ends • Included in the scope of delivery for DPGB-...-P		6 ~ 16	• Elastomer cushioning, adjustable at both ends, with fixed stop • Included in the scope of delivery for DPGB-...-P1
For DPGB-...-E			For DPGB-...-Y12		
	6 ~ 25	• Elastomer cushioning, short, at both ends • Included in the scope of delivery for DPGB-...-E		6 ~ 25	• Shock absorber, self-adjusting, linear, at both ends, external • Included in the scope of delivery for DPGB-...-Y12 (pack of 2) • Only possible from a stroke of 30 mm • Set minimum stroke > 2x cushioning length

C magnetic switch

Magnetic switch is used for T-groove						
	Type of mounting	Switching output	Connection	Cable length m	Type	Diameter φ
N/O						
	Inserted in the slot from above, flush with the cylinder profile	PNP	Magneto resistive, 3-wire	1.3	CDX-12P-1.3	6~12
		NPN	Magneto resistive, 3-wire	1.3	CDX-12N-1.3	
		R	Tongue spring type, 2-wire	1.3	CDX-12R-1.3	
				2.5	CDX-12R-2.5	
N/O						
	Inserted in the slot from above, flush with the cylinder profile	PNP	Magneto resistive, 3-wire	1.3	CDX-13P-1.3	16~25
		NPN	Magneto resistive, 3-wire	1.3	CDX-13N-1.3	
		R	Tongue spring type, 2-wire	1.3	CDX-13R-1.3	
				2.5	CDX-13R-2.5	

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