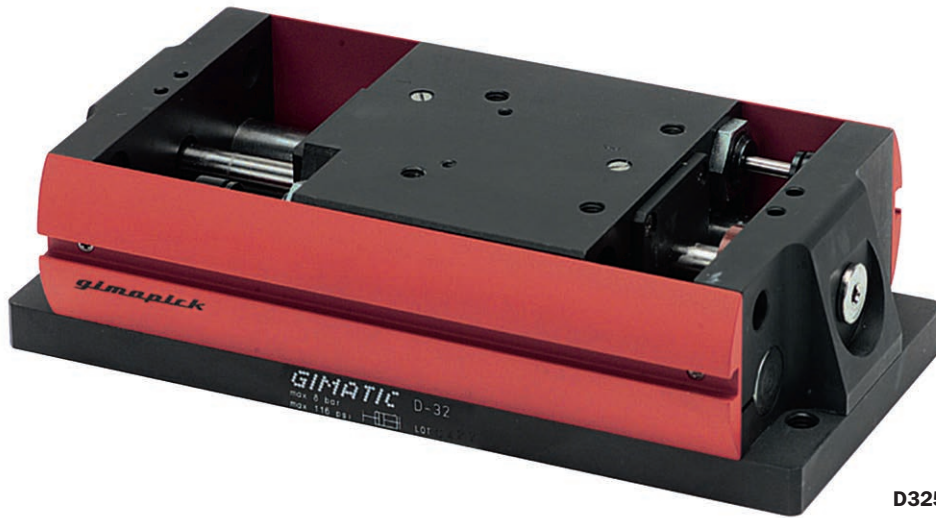


## Pneumatic slides (series D32)

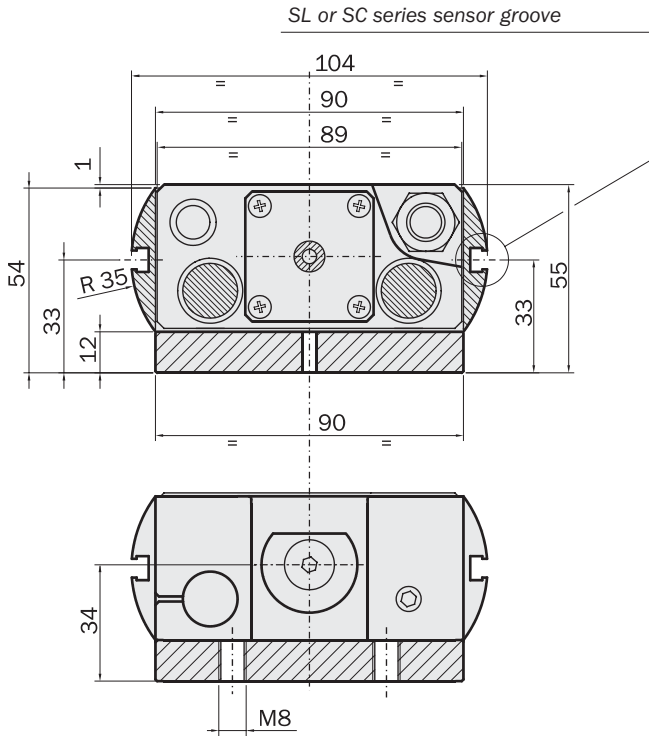
- Modular with other elements of the Gimapick system.
- Bore 32mm.
- Stroke 50mm and 100mm.
- No backlash.
- High stiffness.
- Hydraulic shock-absorbers.
- Optional magnetic sensors.



D3250

	D3250		D32100	
Medium	Filtered, lubricated / non lubricated compressed air			
Operating pressure range	2 ÷ 8 bar			
Operating temperature range	5° ÷ 60°C.			
Maximum stroke	0 ÷ 50 mm		50 ÷ 100 mm	
Maximum opening adjustment	25 mm			
Maximum closing adjustment	25 mm			
Thrust and return force	133 N (2 bar)	266 N (4 bar)	400 N (6 bar)	533 N (8 bar)
Repetition accuracy	0.02 mm			
Cycle air consumption	89 cm <sup>3</sup>		163 cm <sup>3</sup>	
Weight	2.3 kg		3.3 kg	

Dimensions (mm)



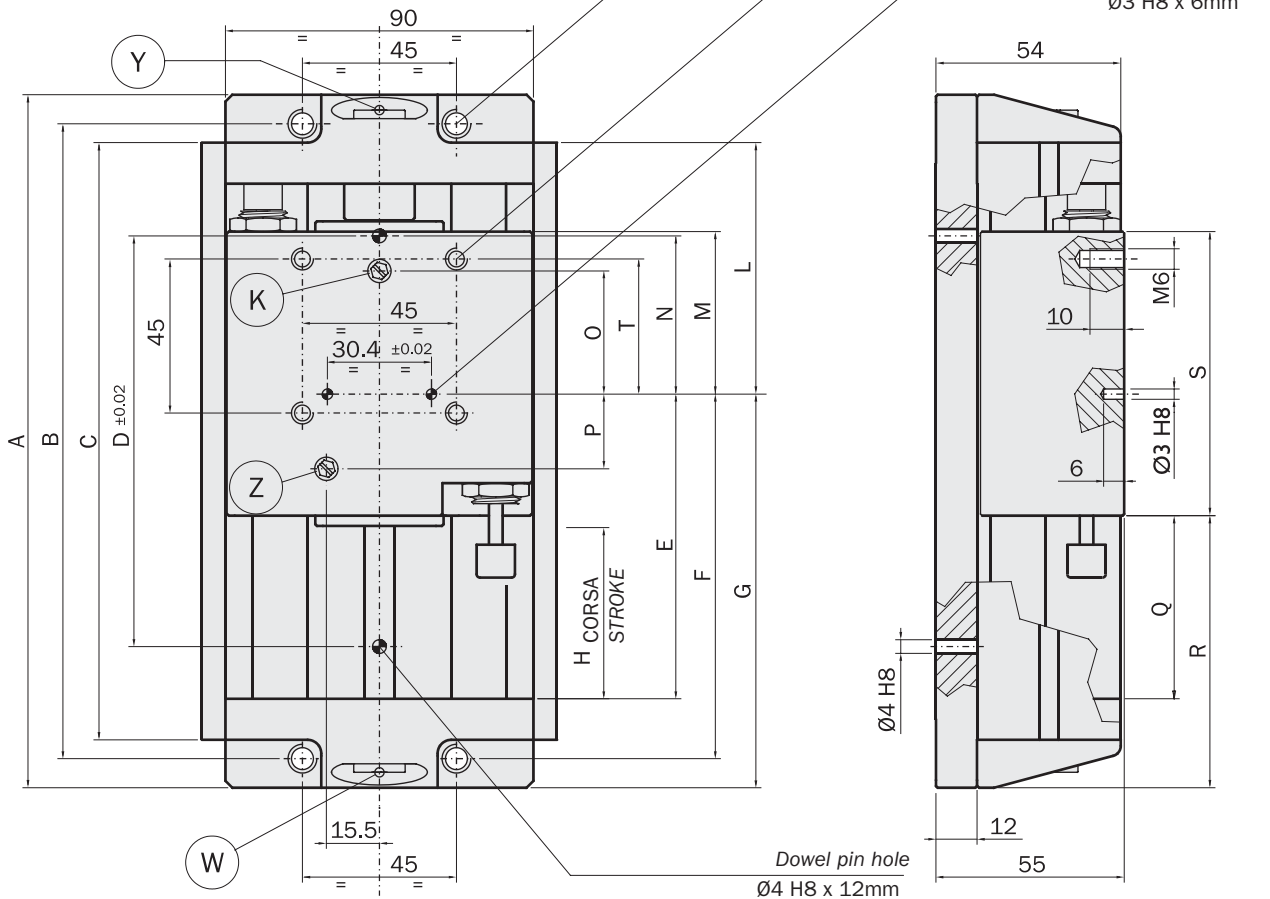
	D3250	D32100
A	202.5	302.5
B	185.5	285.5
C	174.5	274.5
D	120	120
E	89	189.5
F	106.5	207
G	115	215.5
H	50	100
L	73.5	73
M	47.5	47
N	46.25	45.75
O	36	34.5
P	21.8	20.5
Q	53.5	103.5
R	79.5	129.5
S	83	133
T	39.5	39.5

**K / Z - M3** Direct feeding air ports  
**Y / W - 1/8 Gas** Feeding air ports

Hole for fastening  
M8

Hole for fastening  
M6 x 10mm

Dowel pin hole  
Ø3 H8 x 6mm



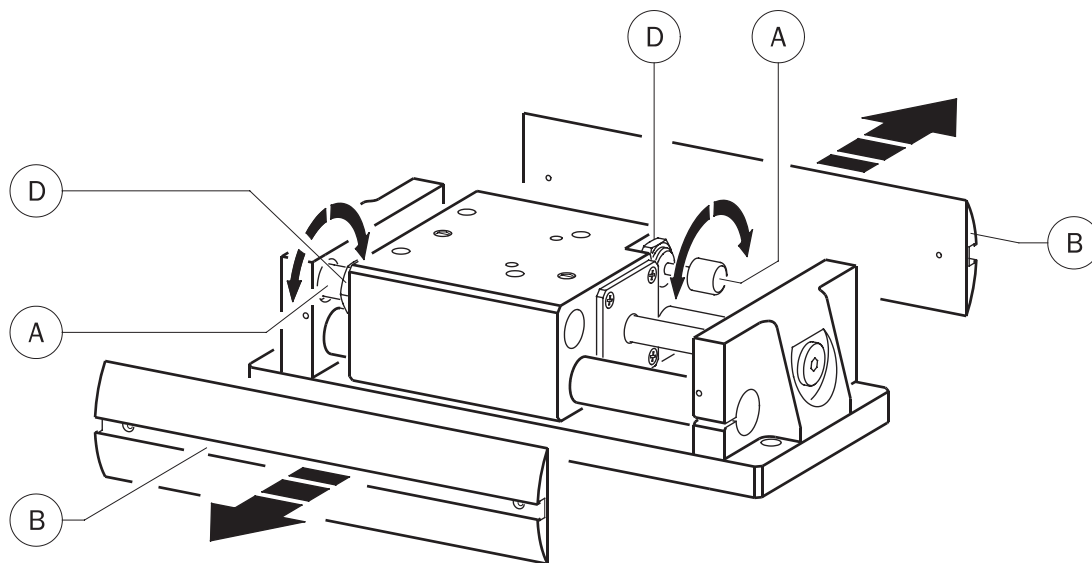
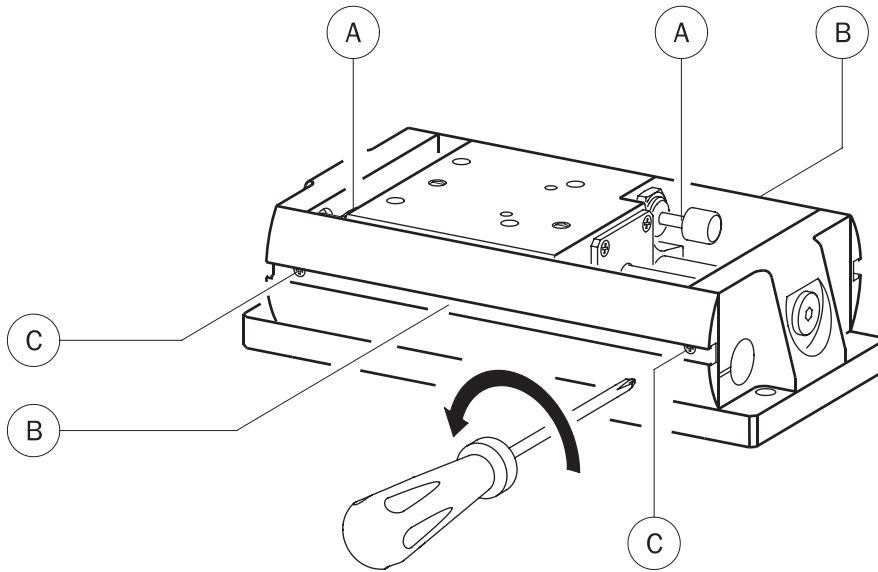
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### Stroke adjustment

The slide stroke can be adjusted on both directions, by changing the position of the two hydraulic shock-absorbers (A), which also function as mechanical stops.

To access the adjustment area, remove the seal profiles (B) by unscrewing the screws (C).

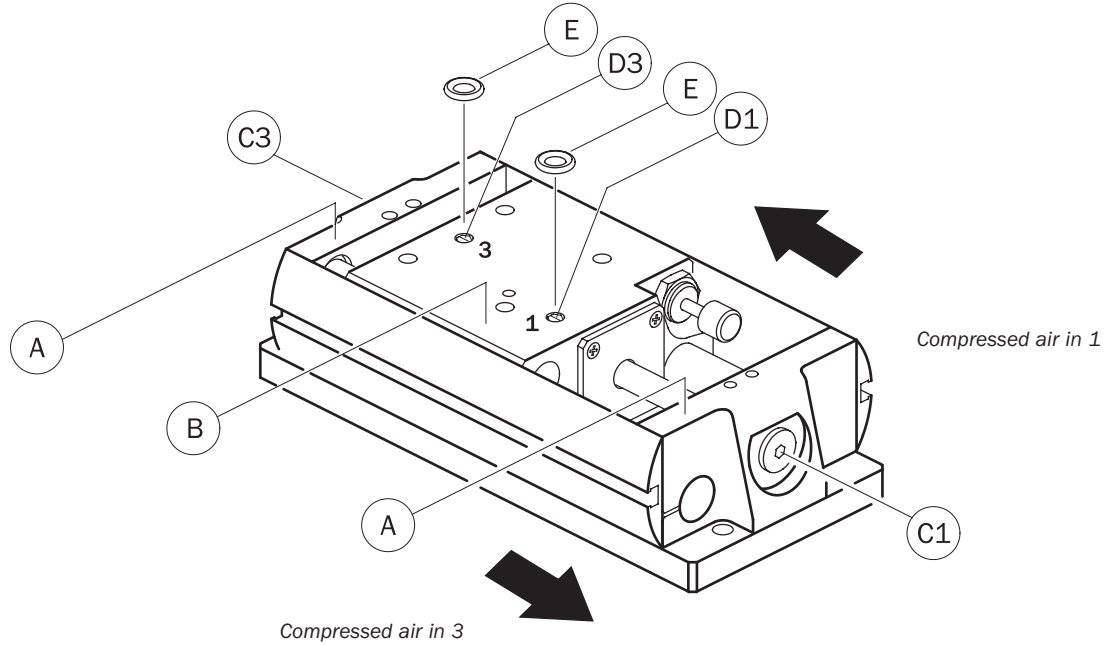
To change the position of the shock-absorber you must loosen the nut (D), then adjust the shock-absorber (A) by a screwdriver and tighten the nut again.



**Compressed air feeding**

The air feeding of the slide D32 can be achieved:

- from the supports (A), after removing the plugs (C), using G1/8 fittings and hoses;
- from the housing (B), if a direct feeding from a Gimapick component is needed, after removing the M3 plugs (D), using the supplied o-ring gaskets (E) (GUAR-060).  
Fittings and hoses are not necessary in this case.



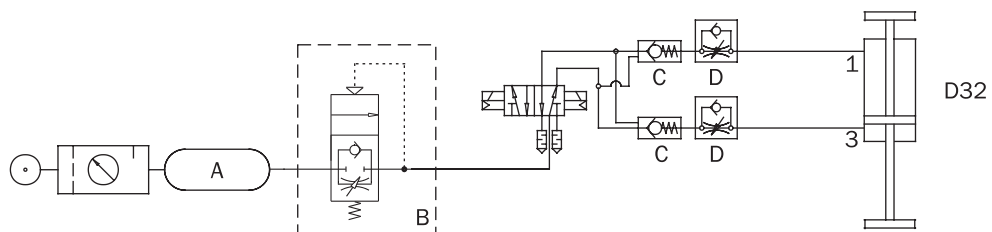
**Pneumatic circuit**

Possible problems on a compressed air circuit:

- 1- Pressure variation.
- 2- Pressurizing.
- 3- Sudden pressure black-out.
- 4- Excessive speed.

Possible solutions:

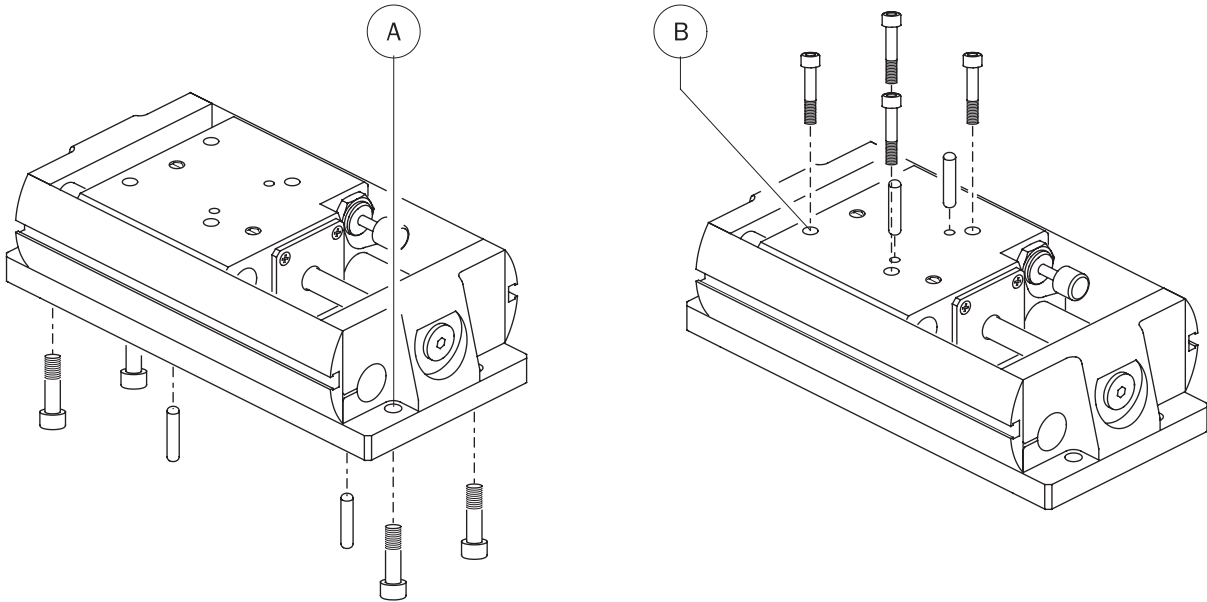
- 1- Compressed air storage (A).
- 2- Start-up valve (B).
- 3- Safety valve (C).
- 4- Flow controller (D).



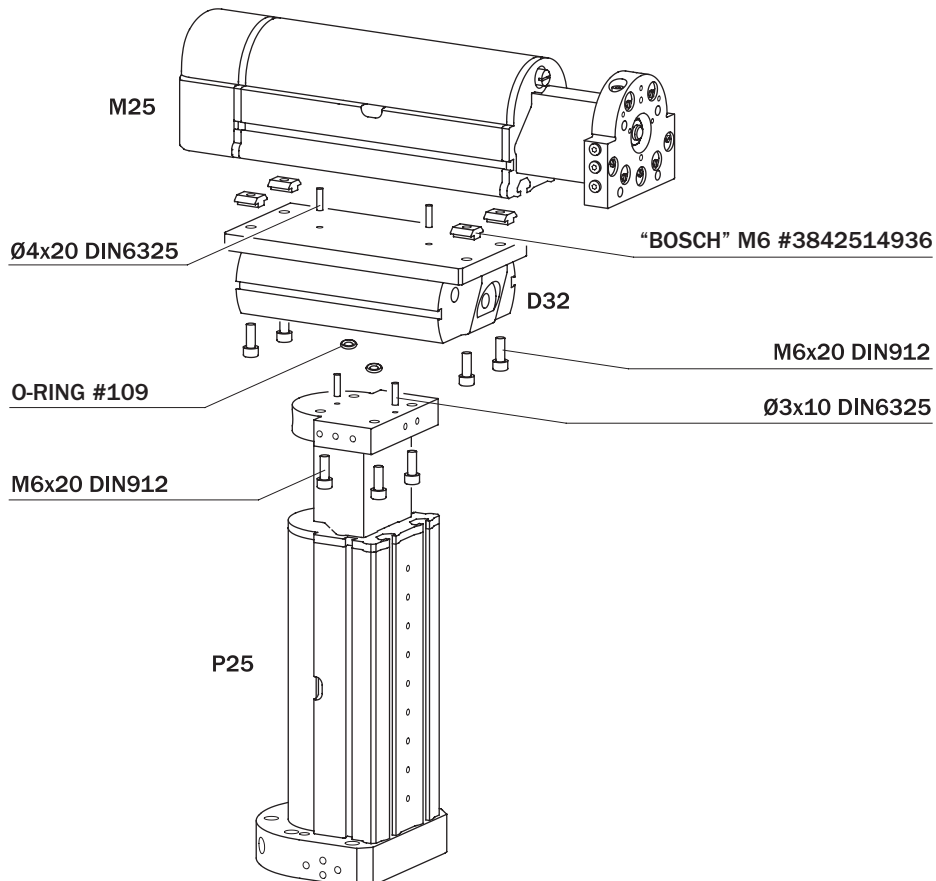
## Fastening

The slide can be used:

- with fixed base plate and moving housing, using the 4 threaded holes M8 (A) and the 2 dowel pin holes  $\varnothing 4$  H8.
- with fixed housing and moving base plate, using the 4 threaded holes M6 (B) and the 2 dowel pin holes  $\varnothing 3$  H8.



## Application example



**Safety loads**

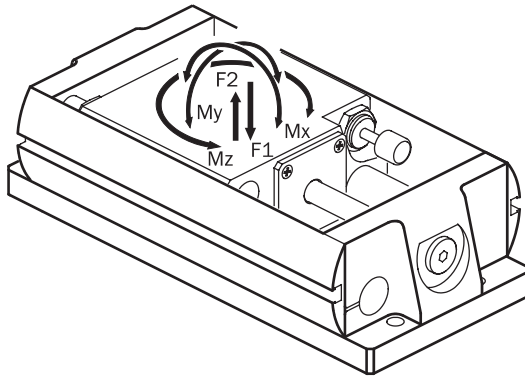
Check the table here below, excessive load can damage the linear slide. The value of load is valid with fixed plate and fixed body as well.

F1 is the max permitted compressive force.

F2 is the max permitted tractive force.

Mx, My and Mz are the max permitted moments.

m is the maximum trasportable mass.

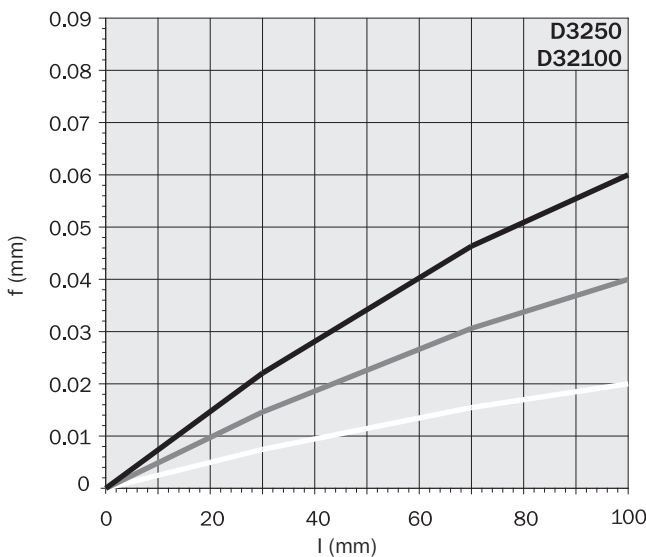
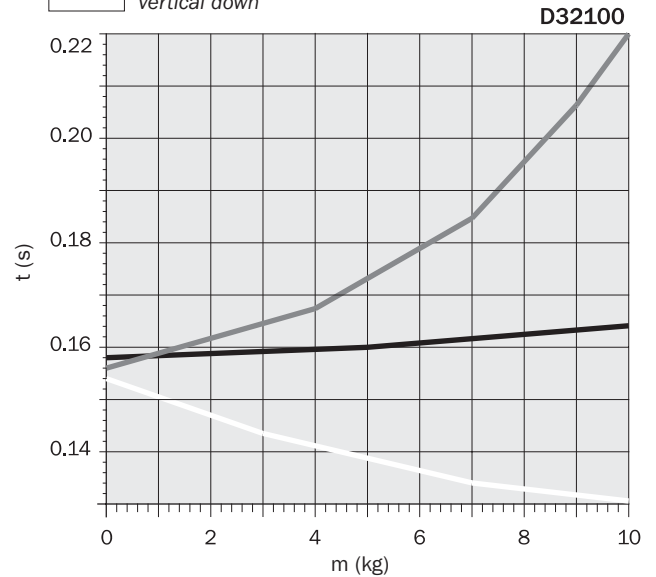
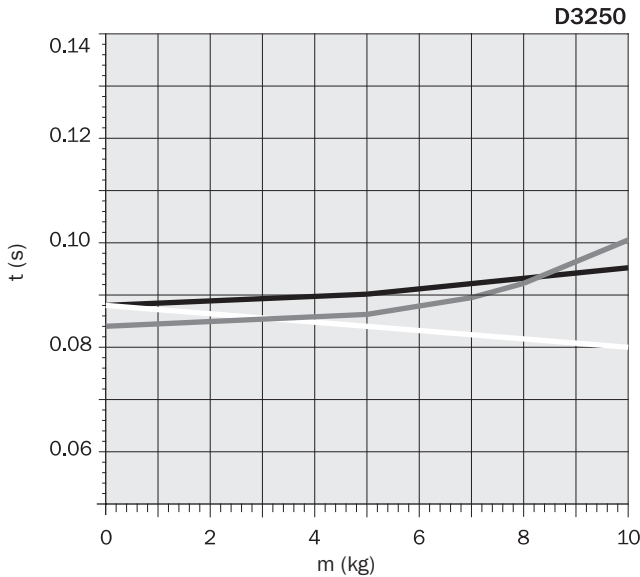


	D3250	D32100
F1	160 N	180 N
F2	100 N	120 N
Mx	60 Nm	80 Nm
My	60 Nm	80 Nm
Mz	60 Nm	80 Nm
m	12 kg	12 kg

**Velocity of the slide**

On the graph t is the translation time related to the mass m and to the direction of the movement:

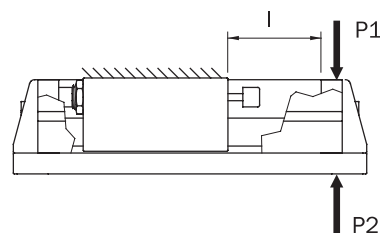
- horizontal
- vertical up
- vertical down



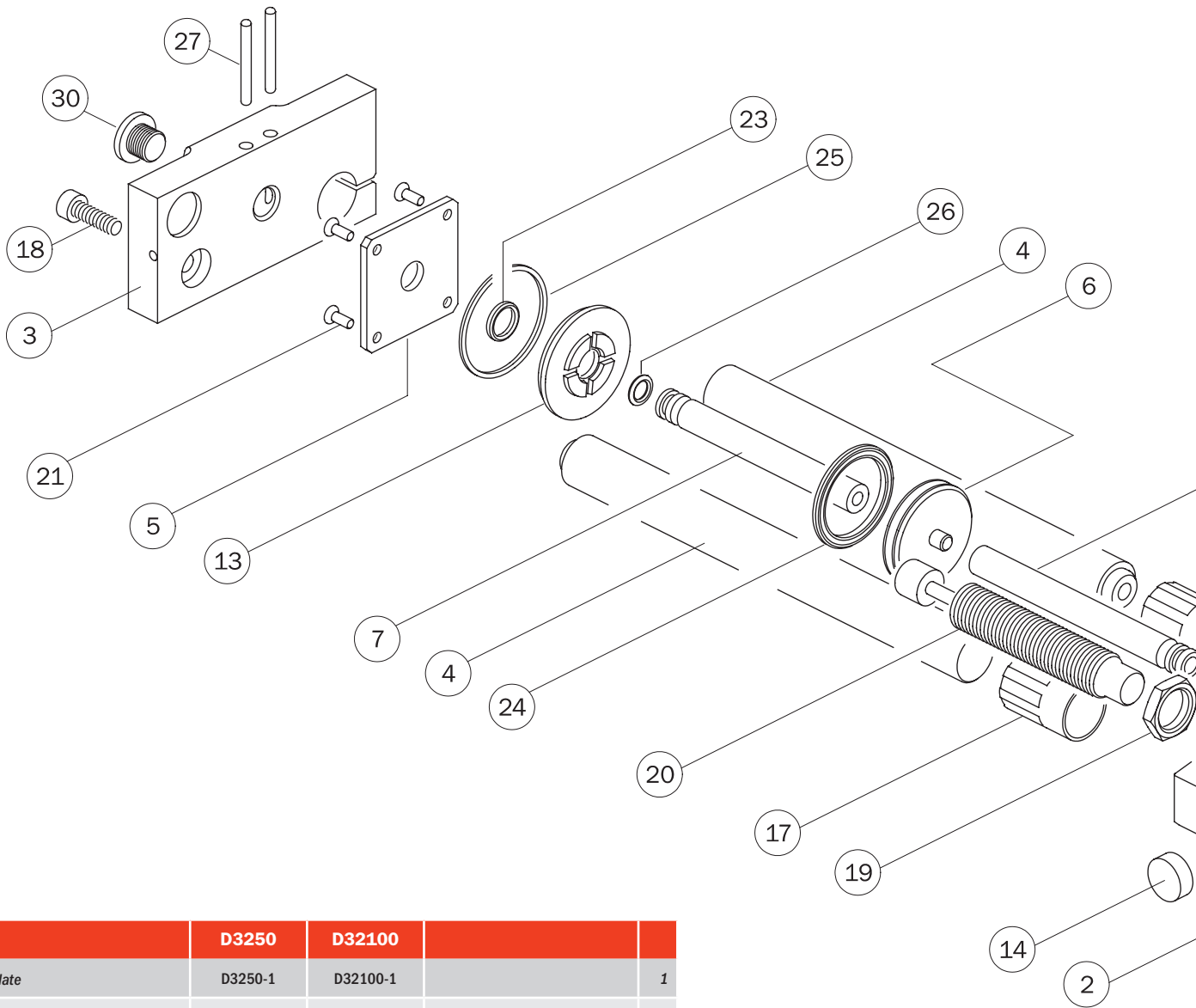
**Deflection of the slide**

On the graph f is the deflection of the slide under force P1 or P2 as a function of stroke l.

- 150 N
- 100 N
- 50 N

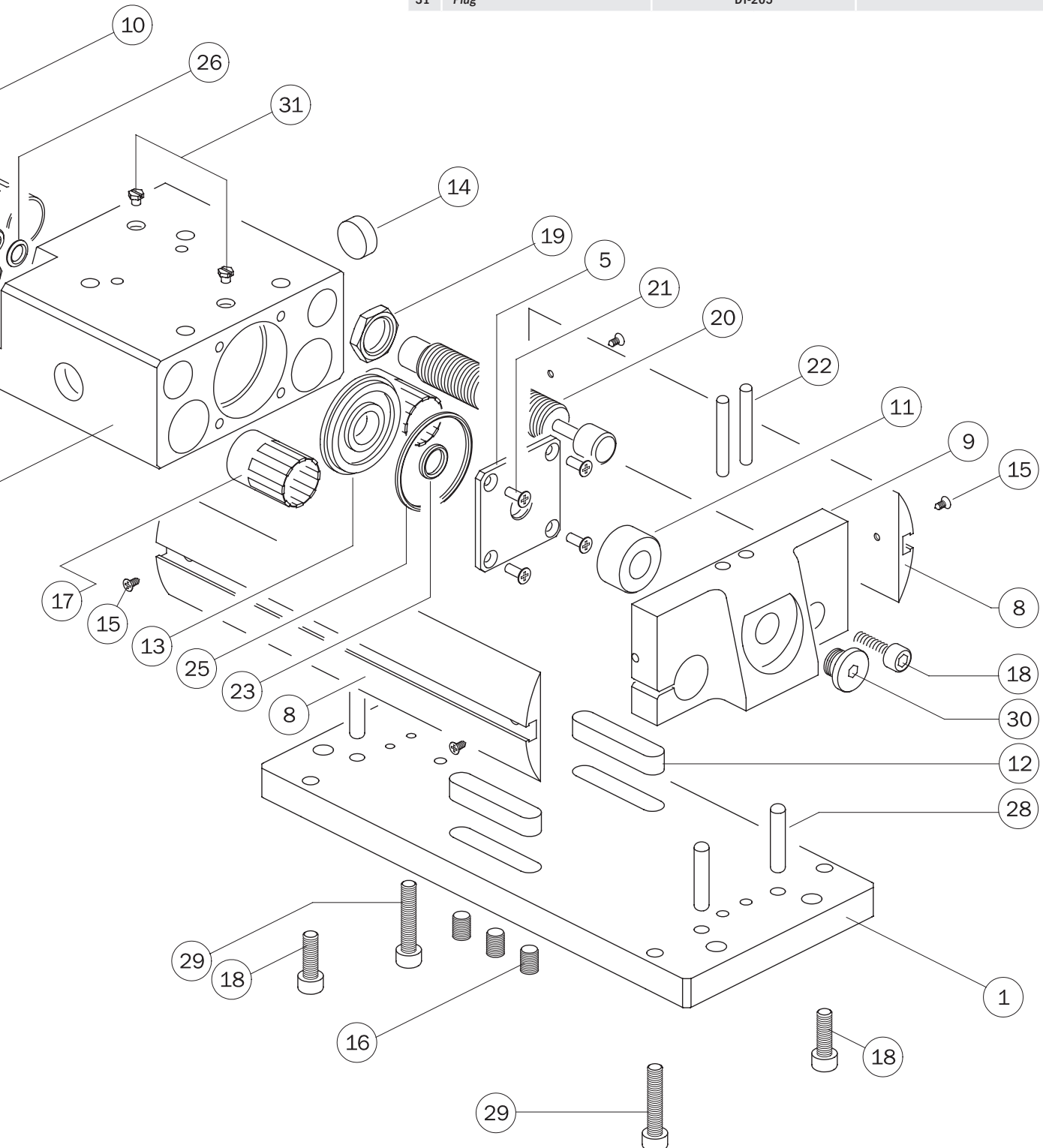


## Part list



		D3250	D32100	
1	Plate	D3250-1	D32100-1	1
2	Slide Housing	D3250-2	D32100-2	2
3	Guide rod support	D3250-3		3
4	Guide rod	D3250-4	D32100-4	4
5	Cover	D3250-5		5
6	Piston	D3250-6		6
7	Piston rod	D3250-7	D32100-7	7
8	Seal profile	D3250-8	D32100-8	8
9	Guide rod support	D3250-9		9
10	Piston rod	D3250-10	D32100-10	10
11	Spacer	D3250-11		11
12	Sliding shoe	D3250-12		12
13	Flange	D3250-13		13
14	Magnet	PE-1680-07		14
15	Screw	2.2x5.5mm DIN 7982		15
16	Grub screw	M6x5 mm DIN 913 INOX A2		16
17	Bushing	WLM-1618-26		17
18	Screw	M5x16 mm DIN 912 INOX A2		18
19	Blocking nut	DEK196		19

		D3250	D32100	
20	Shock-absorber	SPM25MC-1B-SP21365B		20
21	Screw	M3x8 mm DIN 965A INOX A2		21
22	Dowel pin	Ø4x25 mm DIN 6325		22
23	O-RING gasket	Ø1.78x8.73 (GUAR-013)		23
24	Gasket	32x23x3 (GUAR-004)		24
25	O-RING gasket	Ø1.78x31.47 (GUAR-009)		25
26	O-RING gasket	Ø1.78x6.07 (GUAR-039)		26
27	Dowel pin	Ø3x24 mm DIN 6325		27
28	Dowel pin	Ø5x20 mm DIN 6325		28
29	Screw	M5x30 mm DIN 912 INOX A2		29
30	Plug	107-1/8		30
31	Plug	DT-205		31



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