Linear modules pneumatic

with rail guide

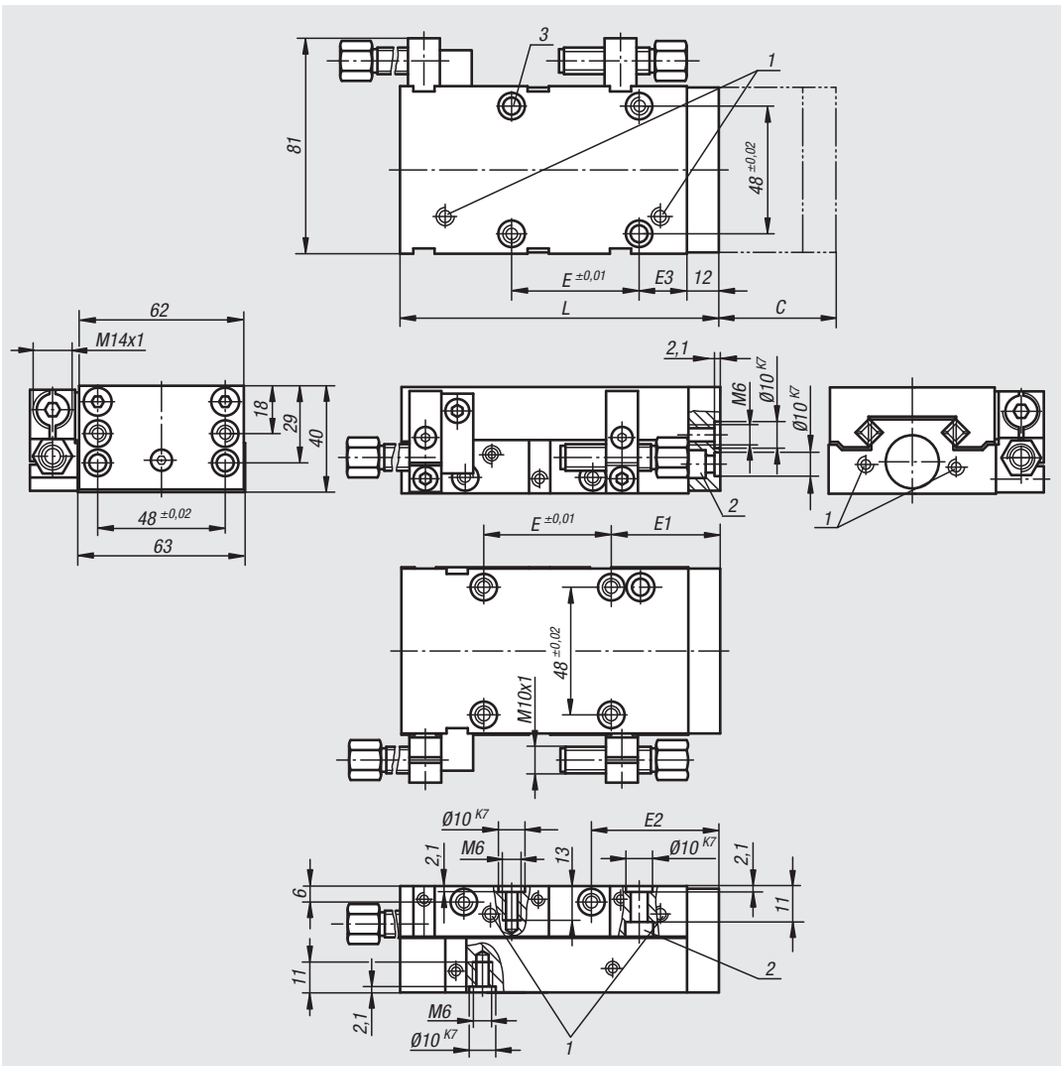
Material:
Housing high-strength aluminium.
Stop system steel.

Version:
Housing anodised.
Stop system hardened and black oxidised.

Sample order:
nlm 20036-6030

Note:
Maintenance-free pneumatic linear modules with recirculating ball bearing guide and load capacity of max. 240 N. Control by 4/2 or 5/2 directional valve. pneumatic drive, 4-8 bar, constant, filtered (10 µm), dried, oiled or unoiled. Compressed air connection M5.
Modules of the same size can be combined with one another without adapter plates via the precise centring system by means of centring rings 20240.
The position of the stop system is variable.

Repeat accuracy ±0.01 mm.



Order No.	Size	C (travel)	E	E1	E2	E3	L	Load capacity N	Piston force at 6 bar (N)	Retraction force at 6 bars (N)	Cylinder Ø	Air consumption per cycle at 6 bar (ccm)
20036-6030	6	30	1 x 48	29	36	18	121	240	76	66	16	11,2
20036-6050	6	50	1 x 48	29	36	18	121	220	76	66	16	18,7
20036-6075	6	75	2 x 48	35	42	21	175	200	76	66	16	28
20036-6100	6	100	2 x 48	35	42	21	175	180	76	66	16	37,4
20036-6125	6	125	3 x 48	17	45	27	231	160	76	66	16	46,8
20036-6150	6	150	3 x 48	17	45	27	231	140	76	66	16	56,1
20036-6175	6	175	4 x 48	26	52	34	288	120	76	66	16	65,5
20036-6200	6	200	4 x 48	26	52	34	288	100	76	66	16	74,8

Order No.	Size	Suitable shock absorber	Suitable proximity switch	Suitable plug connector
20036-6030	6	26310-1410012	83000-15-020	80150-010X2000
20036-6050	6	26310-1410012	83000-15-020	80150-010X2000
20036-6075	6	26310-1410012	83000-15-020	80150-010X2000
20036-6100	6	26310-1410012	83000-15-020	80150-010X2000
20036-6125	6	26310-1410012	83000-15-020	80150-010X2000
20036-6150	6	26310-1410012	83000-15-020	80150-010X2000
20036-6175	6	26310-1410012	83000-15-020	80150-010X2000
20036-6200	6	26310-1410012	83000-15-020	80150-010X2000

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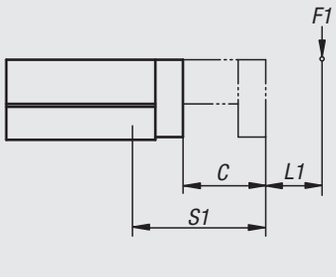
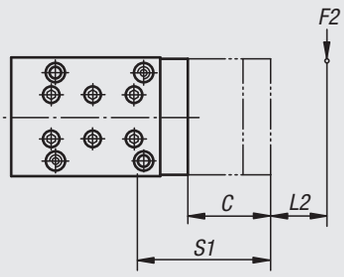
Accessories:
See table for shock absorbers, proximity switches and plug connectors.

Drawing reference:
1) compressed air connections
2) counterbore for socket head screw ISO 4762-M6
3) screw cannot be installed by 30/75/125/175 travel

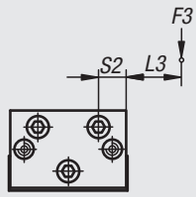
Load data



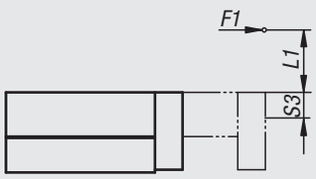
M1 = (S1 + L1) x F1



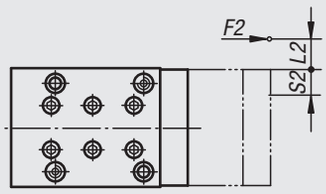
M2 = (S1 + L2) x F2



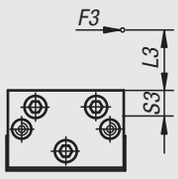
M3 = (S2 + L3) x F3



M1 = (S3 + L1) x F1



M2 = (S2 + L2) x F2



M3 = (S3 + L3) x F3

$$\frac{M1_{eff}}{M1_{zul}} + \frac{M2_{eff}}{M2_{zul}} + \frac{M3_{eff}}{M3_{zul}} \leq 1$$

Calculating the lifespan:

$$L = \left(\frac{M_{zul}}{M_{eff}}\right)^3 \times 10^5$$

L = lifespan (m)
M_{zul} = permissible torque (Nm)
M_{eff} = calculated torque (Nm)

Order No.	Size	M1 Nm	M2 Nm	M3 Nm	S1	S2	S3
20036-6030	6	33,2	33,2	44,6	45 + C/2 (travel)	14	16
20036-6050	6	33,2	33,2	44,6	45 + C/2 (travel)	14	16
20036-6075	6	38,7	38,7	59,5	70 + C/2 (travel)	14	16
20036-6100	6	38,7	38,7	59,5	70 + C/2 (travel)	14	16
20036-6125	6	44,2	44,2	59,5	95 + C/2 (travel)	14	16
20036-6150	6	44,2	44,2	59,5	95 + C/2 (travel)	14	16
20036-6175	6	49,7	49,7	74,4	120 + C/2 (travel)	14	16
20036-6200	6	49,7	49,7	74,4	120 + C/2 (travel)	14	16