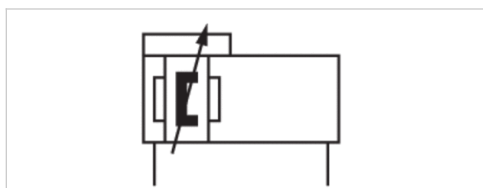


Rodless cylinder, Series RTC-LB

- Ø 25-40 mm
- Ports G 1/8 G 1/4
- double-acting
- with magnetic piston
- Slide bearing guide with long slide
- Cushioning Pneumatically adjustable



Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø	25 mm	32 mm	40 mm
Stroke 100	R480470739	R480677235	R480470729
200	R480470740	R480470749	R480470730
300	R480470741	R480470750	R480470731
400	R480470742	R480470751	R480470732
500	R480470743	R480470752	R480470733
600	R480470744	R480470753	R480470734
700	R480470745	R480470754	R480470735
800	R480470746	R480470755	R480470736
900	R480470747	R480470756	R480470737
1000	R480470748	R480470757	R480470738

Technical data

Piston Ø	25 mm	32 mm	40 mm
Piston force	309 N	507 N	792 N
Cushioning length	20 mm	20 mm	20 mm
Cushioning energy	4 J	7 J	10 J
Speed max.	6,5 m/s	4 m/s	5 m/s

Piston Ø	25 mm	32 mm	40 mm
Weight 0 mm stroke	2,38 kg	3,7 kg	5,04 kg
+10 mm stroke	0,033 kg	0,04 kg	0,049 kg
Stroke max.	7000 mm	9900 mm	9900 mm

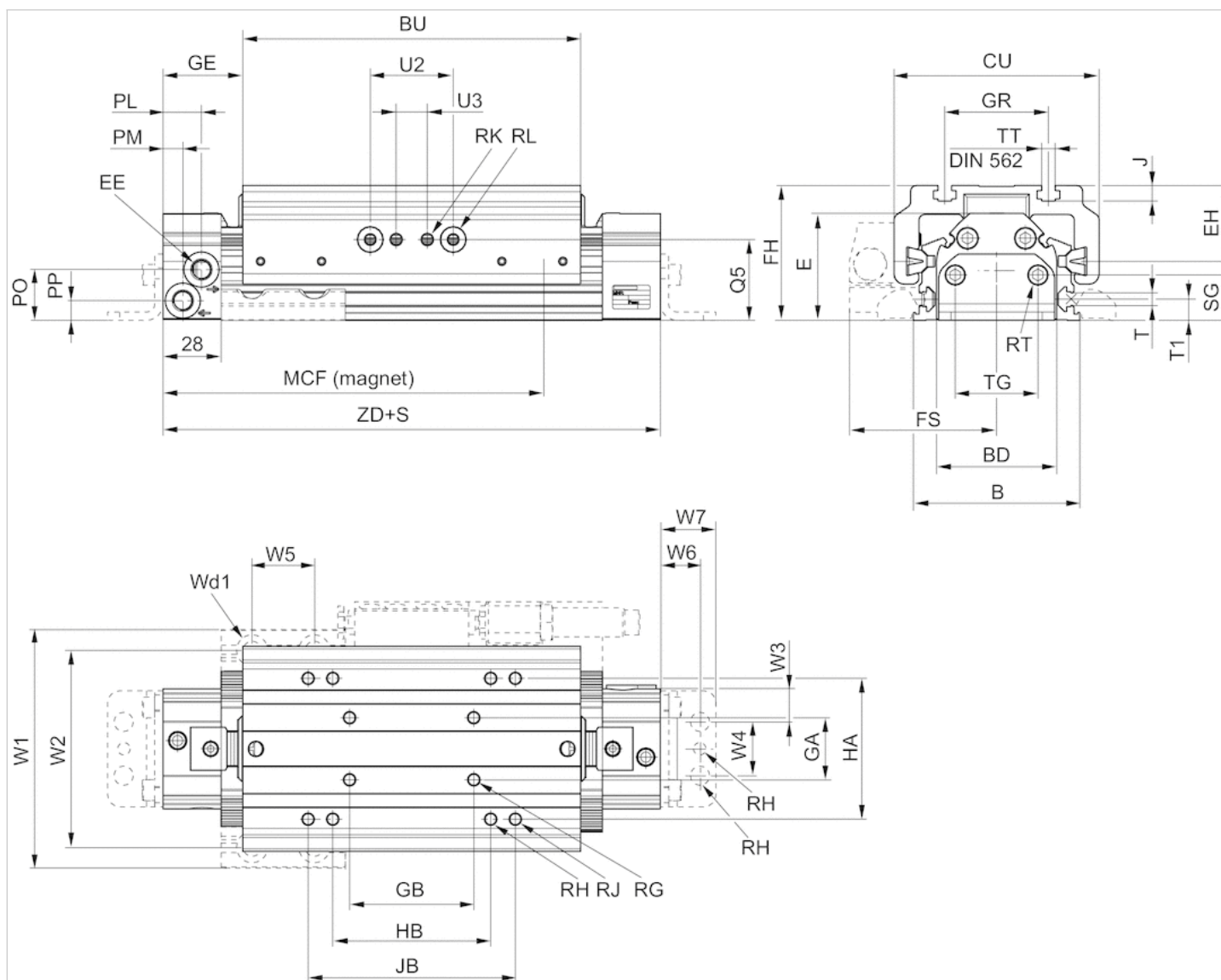
Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The delivered product is lubricated for lifetime.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Cap	Aluminum, anodized
Seal	Polyurethane
Sealing strips	Polyurethane Stainless steel
Ball rail table	Aluminum, anodized

Dimensions



Dimensions

Piston Ø	B	BU	BD	CU	EE	EH	FH	FS	GA	GB	GE	GR	HA	HB	J	JB	MCF	PL	PM
25 mm	67,3	294	44	81	G 1/8	28	55.1	62	18	60	34	40	54.4	101.6	5.9	160	312	20	8
32 mm	80,3	326	58	99	G 1/8	36,6	65.1	71	30	60	38.5	50	68	101.6	7.5	200	345	18.5	9.5
40 mm	89,3	364	70	108	G 1/4	41	71	75.5	30	60	40.5	50	80	127	7.5	240	388	18	10

Piston Ø	PO	PP	Q5	RG	RH	RJ	RK	RL	RT 1)	SG	T	TT	T1	TG	U2	U3	W1
25 mm	21.5	9.3	38.8	M4	1/4-28 UNF	M6	M6	Ø12.01 H7	M5	17.3	N6	N6	10.1	19	40	15	96
32 mm	24.5	9.5	39	M6	1/4-28 UNF	M6	M6	Ø12.01 H7	M6	22	N6	N6	10.1	40	40	15	115
40 mm	31.5	11	44.6	M6	1/4-28 UNF	M6	M6	Ø12.01 H7	M6	22	N6	N6	11.2	40	40	15	124

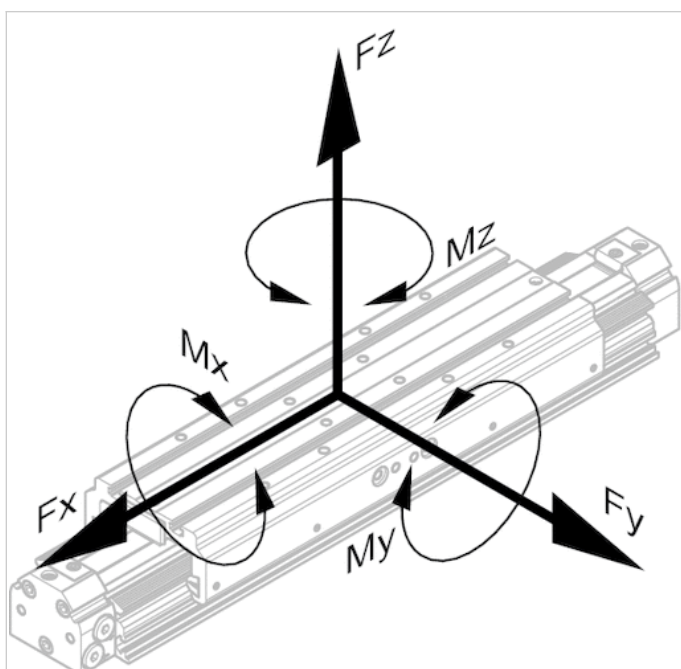
Piston Ø	W2	W3	W4	W5	W6	W7	Wd1	Wd2	Wd3	ZD
25 mm	79	7	18	30	13.5	19.8	Ø6.8	Ø6.8	Ø4G8	362
32 mm	95	15	26	30	19	26.8	Ø8.8	Ø9.2	Ø6G8	403
40 mm	104	15	26	30	19	26.8	Ø8.8	Ø9.2	Ø6G8	445

Dimensions

Permissible forces F_x F_y F_z and torques M_x M_y M_z

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

With simultaneously moments on the cylinder this equation must be used in addition to the maximum moments check. In the cushioning phase of the movement additional forces occur and must be considered. Please use our calculation tool for rodless cylinders on the <http://www.aventics.com>.



dynamic

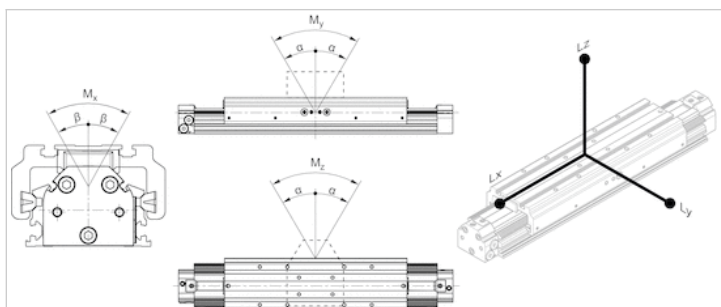
Piston Ø	M_x [Nm]	M_y [Nm]	M_z [Nm]
25 mm	1.4	60	60
32 mm	6	90	90
40 mm	8	100	100

static

Piston Ø	F_x [N]	F_y [N]	F_z [N]	M_x [Nm]	M_y [Nm]	M_z [Nm]
25 mm	1800	1200	3200	42	160	160
32 mm	2200	1400	3800	96	310	310
40 mm	2700	1400	3800	109	362	362

Dimensions

Max. play and recommended max. lever arm length



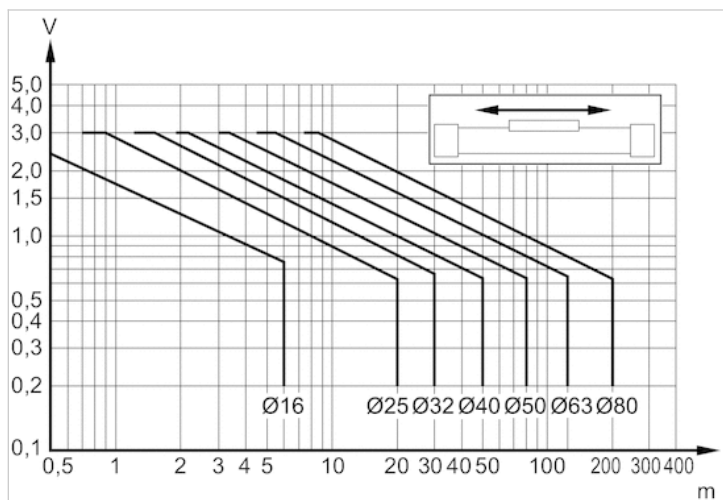
L = lever arm
M = Torques

Dimensions

Piston Ø	α	β	Lx	Ly	Lz
25 mm	$\leq 0,2^\circ$	$\leq 0,3^\circ$	551	280	551
32 mm	$\leq 0,1^\circ$	$\leq 0,3^\circ$	612	320	612
40 mm	$\leq 0,1^\circ$	$\leq 0,3^\circ$	612	320	612

Diagrams

Limit diagram for pneumatic cushioning with horizontal mounting



v = Piston velocity [m/s]

m = Cushionable mass [kg]

The values for the cushionable mass m and piston velocity v must be on or below the graph for the selected piston diameter.

Limit diagram for pneumatic cushioning with vertical mounting

