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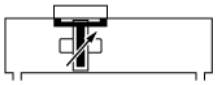
Rodless magnetic cylinder with accessories
Series RLF



Design type	Rodless magnetic cylinder
Heads	Aluminium hard anodized
Slide	Aluminium hard anodized
Cylinder tube	Aluminium profile hard anodized
Sealing tapes	Stainless steel
Seals	Piston speed < 1m/s NBR, Piston speed ≥ 1m/s FKM
End-position cushioning	pneumatic, adjustable
Ambient temperature	-10...+80°C
Medium temperature	0...+40°C
Lubrication	not necessary
Medium	filtered compressed air
Operating pressure	0,5...8bar
Special version	all screws in stainless steel, ATEX II 2G EX h IIB T4 Gb -10°C< Ta < +80°C and II 2D EX h IIIC T 130°C Db
Note	CAD files are available in the STASTO Store at www.stasto.eu Solenoid switch see separate data sheet

Type code

RLF-	16 -	100 -	V
	16 ø16	Stroke [mm]	**O**Standard
	25 ø25	ø16: 100...3300 mm	V FKM-Seals
	32 ø32	ø25...ø63: 100...5700 mm	X Stainless steel screws
	40 ø40		VX Viton seals, Stainless steel screws
	50 ø50		
	63 ø63		

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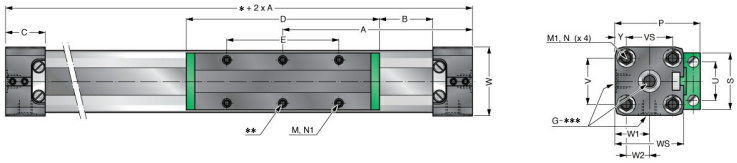
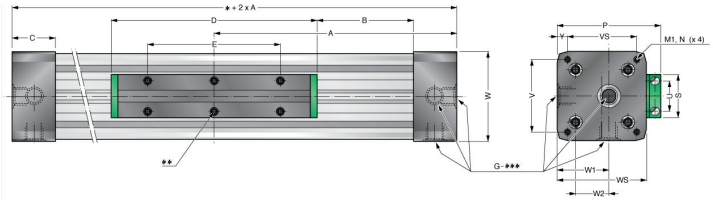
Dimensions

RLF-Ø16...32:



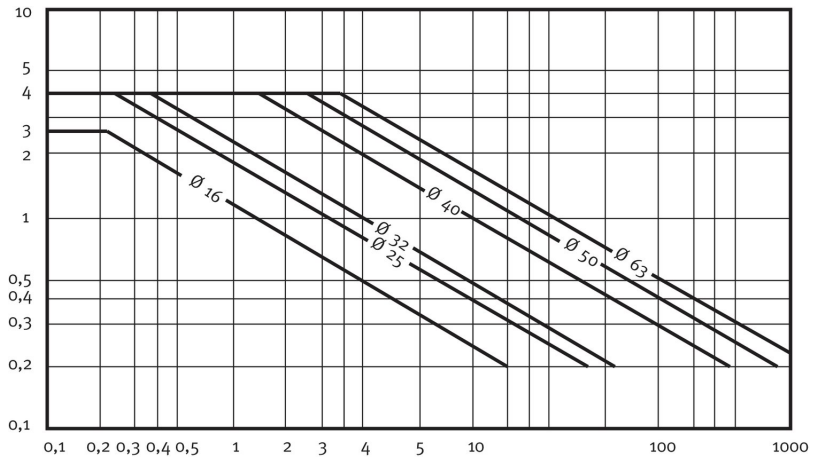
RLF-Ø40...63:



* = Stroke
** = only for model RLF-Ø32/40
*** = 3xPressure inlet

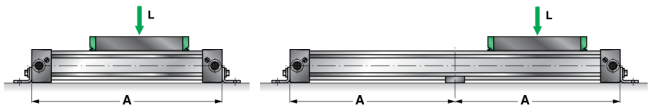
Ø	A	B	C	D	E	G	M	M1	N	N1	P	S	U	V	VS	W	WS	W1	W2	Y	Cushioning length	Type
16	65	15,5	15	69	36	M5	M4	M3	7	7	36,5	22	16,5	18	18	27	27	13,5	17,1	4,5	15	RLF-16-.... ..
25	100	21	23	111	65	G1/8	M5	M5	12	10	52,5	33	25	27	27	40	40	20	25,8	6,5	21	RLF-25-.... ..
32	125	22	27	152	90	G1/4	M6	M6	14	7	66,5	36	27	36	40	52	56	30	39	8	26	RLF-32-.... ..
40	150	44	30	152	90	G1/4	M6	M6	17	10	80	36,4	27	54	54	72	69	36	48,8	9	32	RLF-40-.... ..
50	175	42	33	200	110	G1/4	M6	M6	18	16	89	56	27	70	70	80	80	44,5	44,5	5	32	RLF-50-.... ..
63	215	47,5	50	235	155	G3/8	M8	M8	18	15	123	50	36	78	78	106	106	62,5	48,8	14,5	40	RLF-63-.... ..

Damping diagram

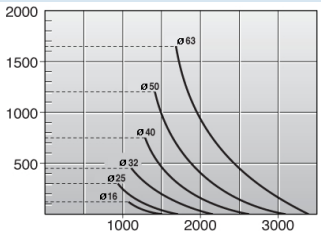


Vertical axis: Piston speed m/s
Horizontal axis: Mass kg

Transverse force



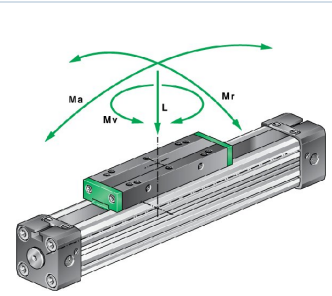
Length A must not be exceeded



Vertical axis: L (Load in newtons)
Horizontal axis: A (maximum distance in mm)

Forces and torques

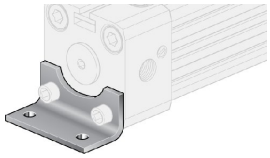
The specified values are maximum values assuming low impact load and a speed of 0.45m/s. Maximum pressure 6bar. An increase in values in dynamic operation, even if only short-term, must be avoided. Attention: Resulting forces can lead to a significant increase in the values. In the event of an undefined situation, the specified maximum values must be reduced by 20%.

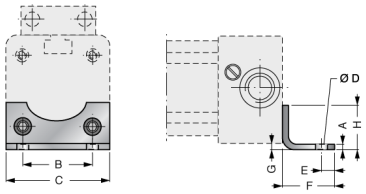


Ø	Longitudinal force [N] at 6bar	Maximum load L [N]	Ma axial [Nm]	Mr radial [Nm]	Mv central [Nm]
16	110	120	4	0,3	0,5
25	250	300	15	1	3
32	420	450	30	2	4,5
40	640	750	60	4	8
50	1000	1200	115	7	15
63	1550	1650	200	8	24

Accessories

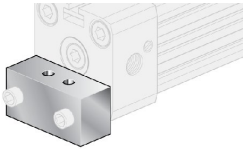
RLP - .. Foot mounting

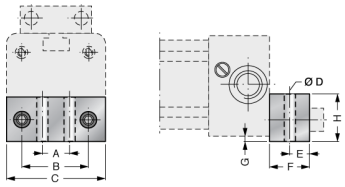




Ø	A	B	C	ØD	E	F	G	H	Type
16	1,5	18	26	3,6	4	14	1,5	12,5	RLP-16
25	2,5	27	40	5,5	6	22	2	18	RLP-25

RLQ - .. Foot mounting





Ø	A	B	C	ØD	E	F	G	H	Type
32	20	36	51	6,5	8	24	4	20	RLQ-32
40	30	54	71	9	11,5	24	2	20	RLQ-40
50	45	70	80	9	12,5	25	1	25	RLQ-50
63	48	78	105	11	15	30	2	40	RLQ-63

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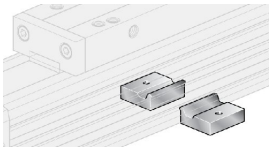
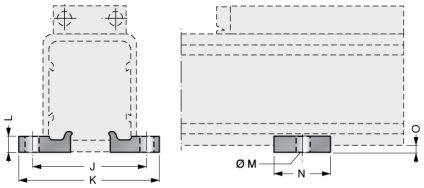
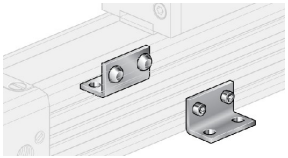
RLMI - .. Bearing blocks

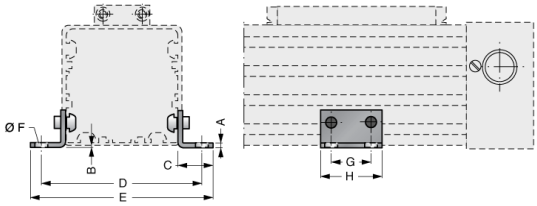




Ø	J	K	L	ØM	N	O	Type
16	41,5	53,5	5	5,5	20	3	RLMI-16
25	48,5	60	6	5,5	20	4	RLMI-25

RLML - .. Bearing blocks





Ø	A	B	C	D	E	ØF	G	H	Type
32	5	6	20	82	91	4,5	30	45	RLML-32
40	5	8,5	20	90	99	4,5	30	45	RLML-40
50	5	1	35	123	148	6,5	30	45	RLML-50
63	5	3,5	35	147	172	6,5	30	45	RLML-63

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