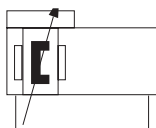




Symbol



Product feature

1. Force and speed of the rodless cylinder are directly switchable.
2. Great attainable operating speed.
3. Rodless cylinders are able to be overloaded without damage.
4. Waste heat is centralised at the compressor, not at the decentralised drive units.
5. Clean, environmentally friendly medium.
6. The waste air can be exhausted directly to surrounding atmosphere.
7. Compressed air is insensitive in the proximity of both magnetic impulses and atomic radiation.
8. Use in EX - area possible (Atex.)

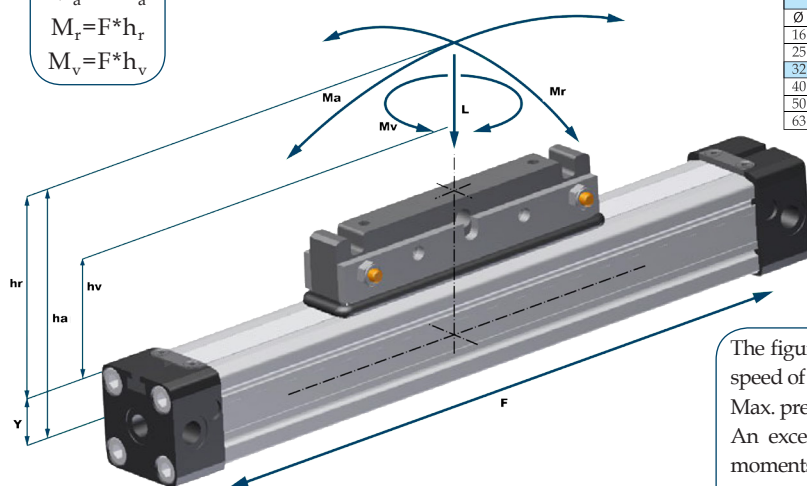
Criteria for selection:

Formeln

$$M_a = F \cdot h_a$$

$$M_r = F \cdot h_r$$

$$M_v = F \cdot h_v$$



		Force an moments					
Cylinder		Effect Force (N)	Cushioning	Max. allowed load (N)	Max. allowed bending moments (Nm)		Max. allowed torque (Nm)
		at 6 Bar	(mm)				
Ø	Y	F	S	L	Ma axial	Mr radial	Mv zentral
16	9	110	15	120	4	4	0,5
25	14	250	21	300	15	15	3,0
32	18	420	26	450	30	30	4,5
40	22	640	32	750	60	60	8,0
50	28	1000	32	1200	115	115	15,0
63	36	1550	40	1650	200	200	24,0

The figures above are max. values based on light shock free duty and speed of $\leq 0,2\text{m/sec}$ [RCA-series]- $v \leq 0,45\text{m/sec}$ [RCB-series].

Max. pressure 6 bar.

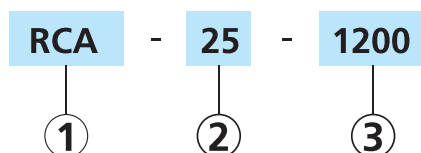
An exceeding of the values in dynamic operations, even for short moments, has to be avoided.

Attention: Resulting forcer could lead to extreme exceedings of the values. In case of undefinable situations the above max. values have to be reduced by 10-20%.

Specification

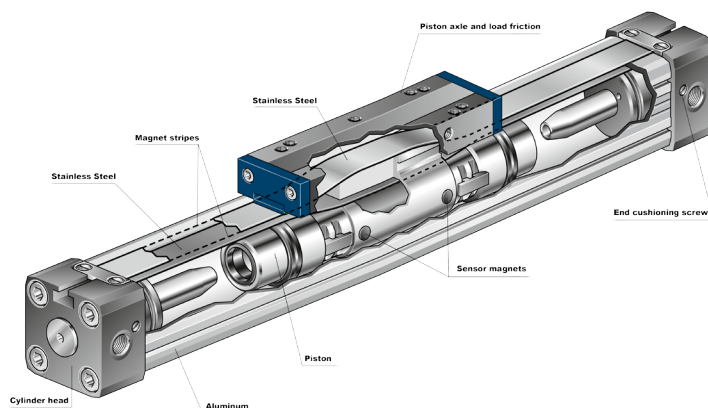
Bore size(mm)	16	25	32	40	50	63
Acting type	Double acting					
Fluid	Air(to be filtered by 40 μm filter element)					
Mounting type	FO AC TL					
	FO TLB					
Operating pressure	0.5~8bar(7 psi~120)					
Proof pressure	15bar(215psi)					
Temperature °C	-20~80°C					
Speed range mm/s	1m/s					
Stroke	100~4400mm	100~5700mm				
Cushion type						
Port size	M5	1/8"	1/4"	1/4"	1/4"	3/8"

Ordering code



① Model	② Bore Size	③ Stroke
RCA: Rodles Cilynder	16	100-4400
	25	100-5700
	32	100-5700
	40	100-5700
	50	100-5700
	63	100-5700
RCB: Rodles Cilynder		

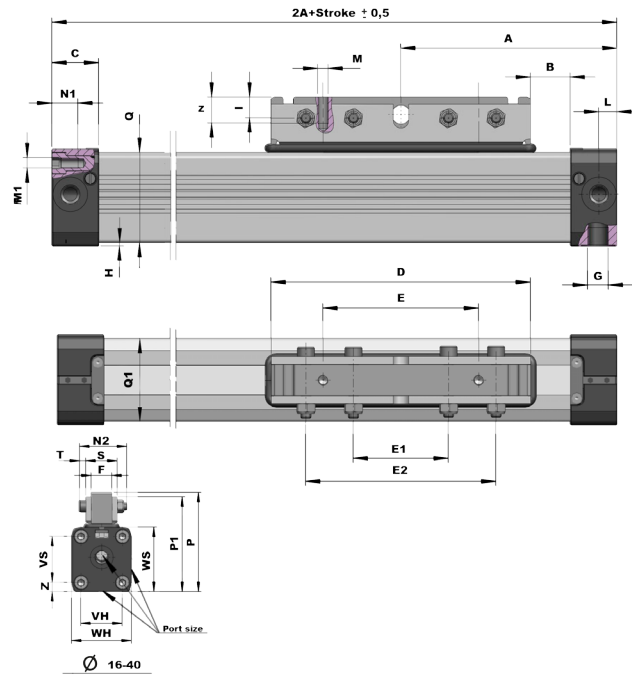
Inner structure and material of major parts



Materials	
Barrel	High-strength anodized aluminum
End caps	High-strength anodized aluminum
Piston axle	High-strength anodized aluminum
Seals	Oilproof synthetic material (V < 1m/s (NBR))
Sealing bands	Stainless steel
Piston caps	Wear proof synthetic material
Sliding parts	Wear proof synthetic material

Dimensions

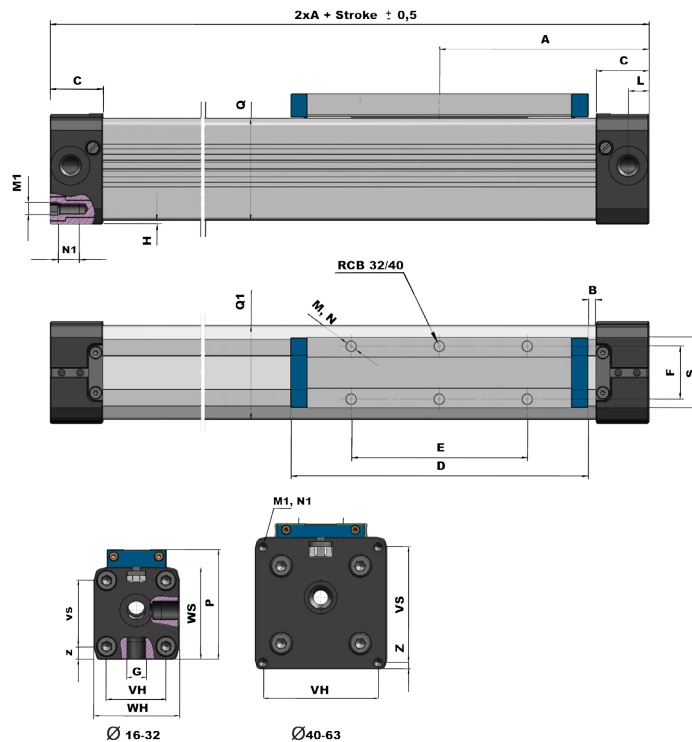
RCA



\varnothing	A	B	C	D	E	E1	F	G	I	L	M	M1	N1	N2	P-P1
16	65	12	15	76	48	32	10	M5	6	5,5	M4	M3	7	27	43,5 - 42,3
25	100	17	23	120	80	50	15	1/8"	13	8,5	M5	M5	10	35	66-58
32	125	23	27	150	90	55	18	1/4"	12	10,5	M6	M6	14	41	86-82
40	150	45	30	150	90	55	18	1/4"	12	15	M6	M6	17	41	97-93

\varnothing	P1	QxQ1	E2	H	S	T	VH	WH	VS	WS	Z
16	37,5	24,5x25	64	1,0	18	4	18	27	18	27	4,5
25	53	36x36	100	2	23	5	27	40	27	40	6,5
32	74	52x51	110	2	27	6	36	52	40	56	8
40	85	58,5x59	110	7	28	6	54	72	54	69	9

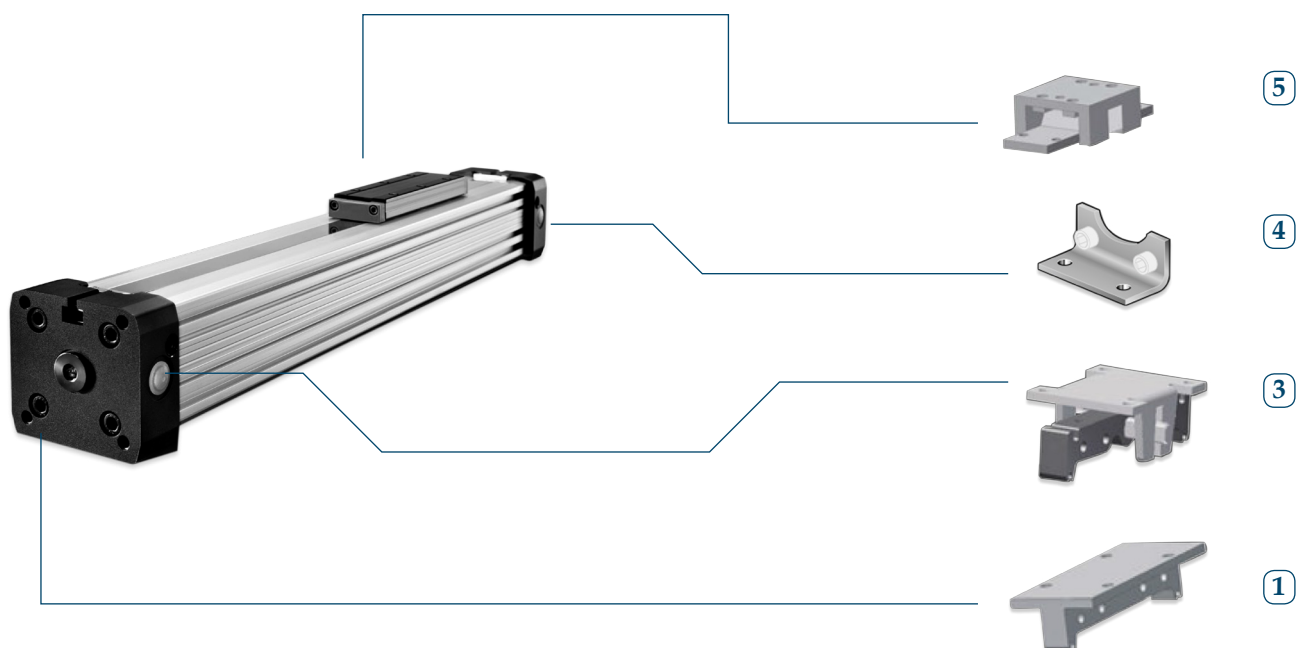
RCB



\varnothing	A	B	C	D	E	F	G	H	L	M	M1	N	N1	P
16	65	15,5	15	69	36	16,5	M5	1,0	5,5	M4	M3	7	7,0	36,5
25	100	21,0	23	111	65	25,0	G1/8"	2,0	8,5	M5	M5	10	12	52,5
32	125	22,0	27	152	90	27,0	G1/4"	2,0	10,5	M6	M6	7	14	66,5
40	150	44,0	30	152	90	27,0	G1/4"	6,75	15,0	M6	M6	10	17	80,0
50	175	42,0	33,0	200	110	27,0	G1/4"	0,5	11,7	M6	M6	6	18	88,0
63	215	47,5	50	235	155	36,0	G3/8"	1,5	25,0	M8	M8	15	18	123,0

\varnothing	QxQ1	S	VS	VH	WS	WH	Z
16	24,5x25	22,0	18	18	27	27	4,5
25	36x36	33,0	27	27	40	40	6,5
32	52x51	36,0	40	36	56	52	8,0
40	58,5x59	36,4	54	54	69	72	9,0
50	77x78	56,0	70	70	80	80	4,0
63	102x102	50,0	78	78	106	106	14,5

Acessories

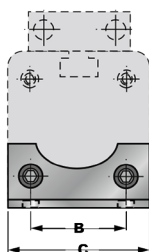


Accessories	Cylinder Model		Page
	RCA	RCB	
1 FO	■	■	
2 CS1-E	■	■	
3 AC	■		
4 TL	■		
5 AT		■	

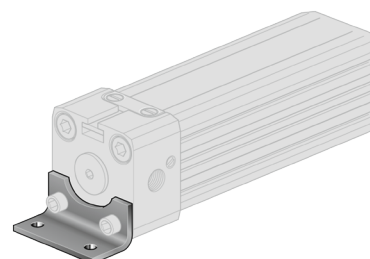
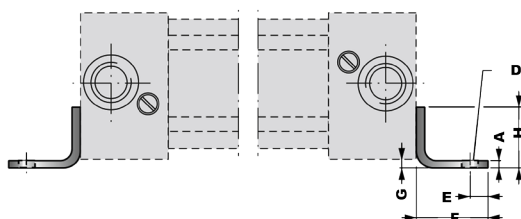
Dimensions accessories

FO

24/1.0 - 2.0*

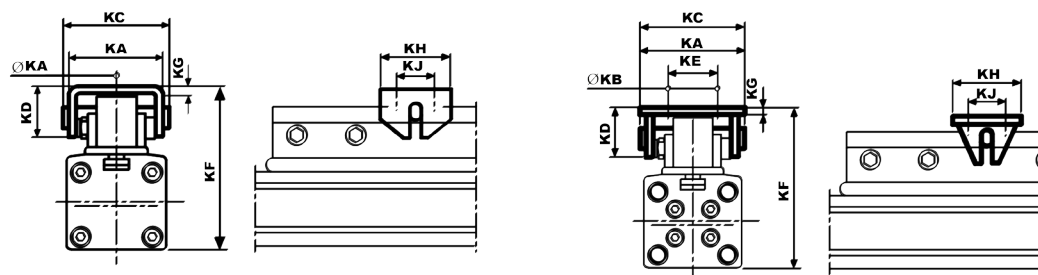


24/3.0 - 6.0*

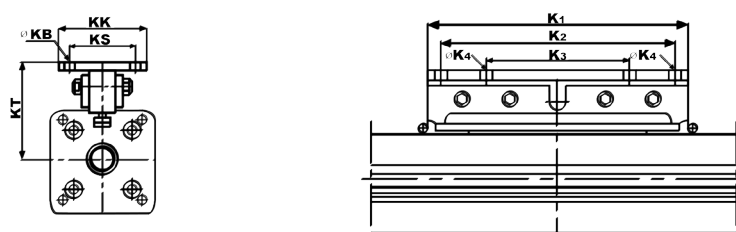


Ø	A	B	C	D	E	F	G	H
RC-16FO	1,5	18	26	3,6	4,0	14	1,5	12,5
RC-25FO	2,5	27	40	5,5	6,0	22	2	18
RC-32FO	5,0	36	51	6,5	8,0	24	4	20
RC-40FO	5,0	54	71	9	11,5	24	2	20
RC-50FO	5,0	70	80	9	12,5	25	1,0	25
RC-63FO	5,0	78	105	11	15	30	2,0	40

AC - TL

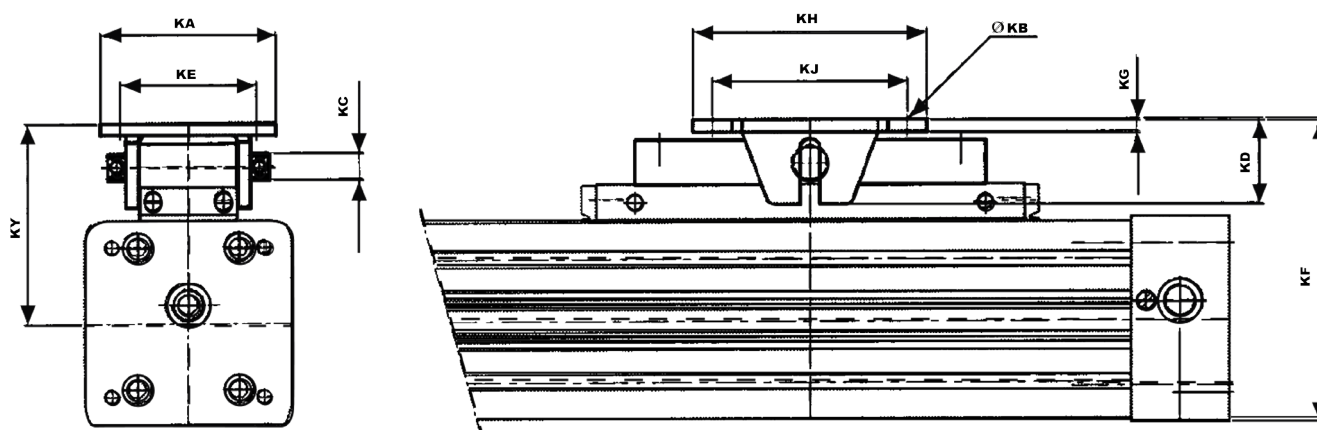


TL



Ø	KA	KB	KC	KD	KE	KF*	KG	KH	KJ	KK	KS	KT	K1	K2	K3	K4
RCA-16AC	25	4,5	28	12	-	47-50	2	20	10	-	-	-	-	-	-	-
RCA-25AC	37	5,5	42	20	-	72-75	3	30	15	-	-	-	-	-	-	-
RCA-32AC	70	7,0	70	38	55	91-100	5	90	75	60	45	58,5	150	-	80	7
RCA-32TL	-	7,0	-	-	-	-	-	-	-	60	45	58,5	300	160	80	7
RCA-40AC	70	7,0	70	38	55	111-120	5	90	75	60	45	63	150	-	80	7
RCA-40TL	-	7,0	-	-	-	-	-	-	-	60	45	63	300	160	80	7

AT



Ø	KA	KB	KD	KE	KF	KG	KH	KJ	KY
RCB-16AT	26	M4	10	10	46,5-47,5	3,0	28	20	33
RCB-25AT	38	M5	19	16	71,5-73,5	3,5	40	30	51,5
RCB-32AT	62	M6	28	25	94,5-96,5	6,0	60	46	66,5
RCB-40AT	62	M6	28	25	108-110	6,0	60	45	73,5
RCB-50AT	90	9	43,7	70	135-150	6,4	120	100	95-100
RCB-63AT	90	9	43,7	70	155-170	6,4	120	100	102-117