

Rodless cylinders → Rodless cylinders

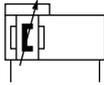
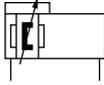
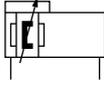
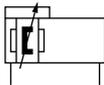
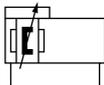
Series RTC

Brochure



Rodless cylinders → Rodless cylinders

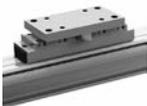
Series RTC

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Sensors and sensor mountings, accessories RTC-SB

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Series RTC

Industrial shock absorber for RTC-SB



Industrial shock absorber, Series SA1-MC
▶ sealing for piston rod: Lip ring

81



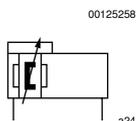
Industrial shock absorber, Series SA1-MC
▶ sealing for piston rod: Lip ring

84

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-BV

► Ø 16 - 80 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► integrated guide ► Basic Version
 ► cushioning: pneumatically, adjustable



Working pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Covers	Aluminum, anodized
Seals	Polyurethane
Sealing strips	Polyurethane; Stainless steel
Ball rail table	Aluminum, anodized

Technical Remarks

- 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.
- This product may only be operated with oil-free, dry compressed air.

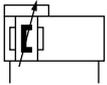
Piston Ø	[mm]	16	25	32	40	50	
Piston force	[N]	127	309	507	792	1237	
Cushioning length	[mm]	20	20	20	20	20	
Cushioning energy	[J]	1.5	4	7	10	15	
Speed max.	[m/s]	5.5	6.5	4	5	3	
Weight	0 mm stroke	[kg]	0.45	0.82	1.39	2.09	3.37
	+10 mm stroke	[kg]	0.014	0.023	0.031	0.044	0.065
Stroke max.	[mm]	6600	7000	9900	9900	9900	

Piston Ø	[mm]	63	80			
Piston force	[N]	1964	3146			
Cushioning length	[mm]	20	20			
Cushioning energy	[J]	25	40			
Speed max.	[m/s]	3	3			
Weight	0 mm stroke	[kg]	5.65	9.71		
	+10 mm stroke	[kg]	0.098	0.157		
Stroke max.	[mm]	5800	4800			

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Rodless cylinder, Series RTC-BV

► Ø 16 - 80 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► integrated guide ► Basic Version
 ► cushioning: pneumatically, adjustable

	Piston Ø Ports	16 M7	25 G 1/8	32 G 1/8	40 G 1/4	50 G 1/4
	Stroke 100	R480143252	R480141454	-	-	-
	200	R480143255	R480141455	R480141462	-	-
	300	R480143256	R480141456	R480141463	-	-
	400	R480143257	R480141457	R480141464	R480141472	R480148854
	500	R480143258	R480141458	R480141465	R480141473	R480146166
	600	R480143259	R480141459	R480141466	R480141474	R480149081
	700	R480143260	R480141460	R480141468	R480141475	R480145947
	800	-	R480141461	R480141469	R480141476	R480148600
	900	-	-	R480141470	R480141477	R480147023
	1000	-	-	R480141471	R480141478	R480149199
	Piston Ø Ports	63 G 3/8	80 G 3/8			
	Stroke 100	-	-			
	200	-	-			
	300	-	-			
	400	R480147730	R480147731			
	500	R480147713	R480147714			
	600	R480146014	R480146210			
	700	R480145948	R480155522			
	800	R480147223	R480147699			
900	R480146204	R480156948				
1000	R480147036	R480147700				

Configurable product

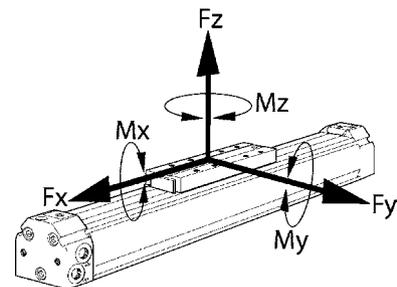


This product is configurable. Please use our Internet configurator at <http://www.rexrothpneumatics.com> or contact the nearest Rexroth Pneumatics sales office.

Permissible forces F_x , F_y , F_z and torques M_x , M_y , M_z

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

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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 www.rexrothpneumatics.com.

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Rodless cylinder, Series RTC-BV

► Ø 16 - 80 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► integrated guide ► Basic Version
 ► cushioning: pneumatically, adjustable

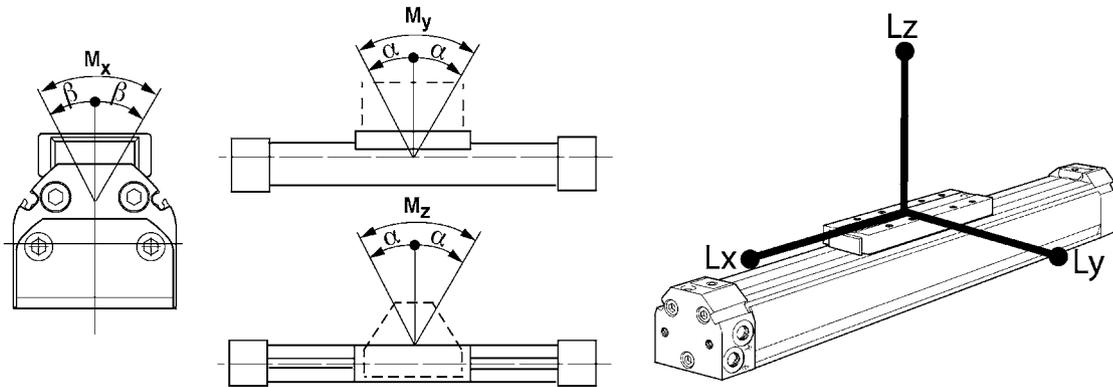
Static

Piston Ø	F _x [N]	F _y [N]	F _z [N]	M _x [Nm]	M _y [Nm]	M _z [Nm]							
16	800	150	1100	2	25	8							
25	1800	210	3800	6	50	12							
32	2200	550	6600	18	80	43							
40	3500	650	8000	28	140	55							
50	5000	750	9000	35	230	70							
63	6800	850	13000	45	340	90							
80	9500	1000	13000	55	500	110							

Dynamic

Piston Ø	M _x [Nm]	M _y [Nm]	M _z [Nm]										
16	0.42	10	2										
25	1	24	3										
32	3.8	42	12										
40	6	75	15										
50	9.1	128	20										
63	14.5	195	24										
80	20	300	28										

Max. play and recommended max. lever arm length



L = lever arm

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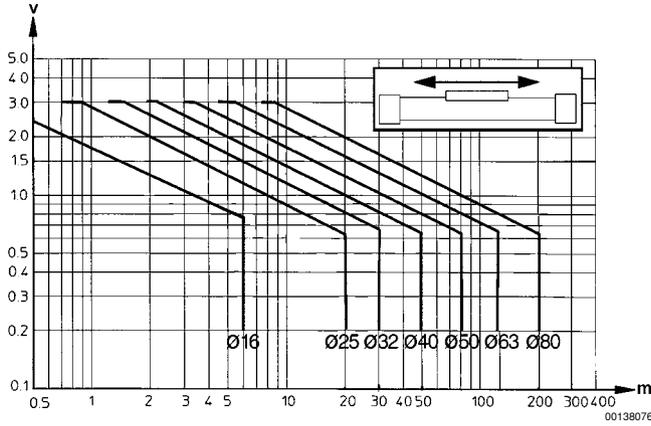
Piston Ø	α	β	L _x	L _y	L _z								
16	0,5°	2,0° ±1°	162	94	162								
25	0,5°	2,0° ±1°	217	123	217								
32	0,6°	1,5° ±0,5°	240	139	240								
40	0,4°	1,0° ±0,3°	275	158	275								
50	0,4°	1,0° ±0,3°	317	181	317								
63	0,3°	1,0° ±0,3°	368	209	368								
80	0,3°	1,0° ±0,3°	435	245	435								

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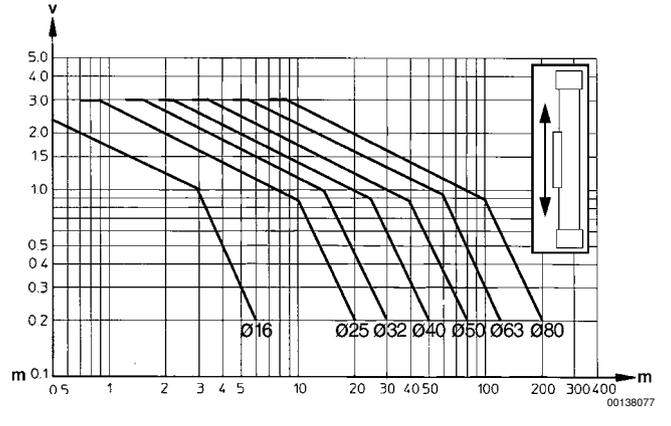
Rodless cylinder, Series RTC-BV

- ▶ Ø 16 - 80 mm ▶ Ports: M7 - G 3/8 ▶ double-acting ▶ with magnetic piston ▶ integrated guide ▶ Basic Version
- ▶ cushioning: pneumatically, adjustable

Limit diagram for pneumatic cushioning with horizontal mounting

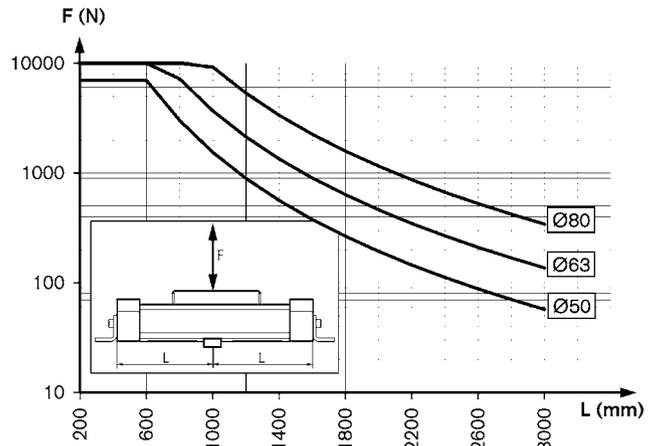
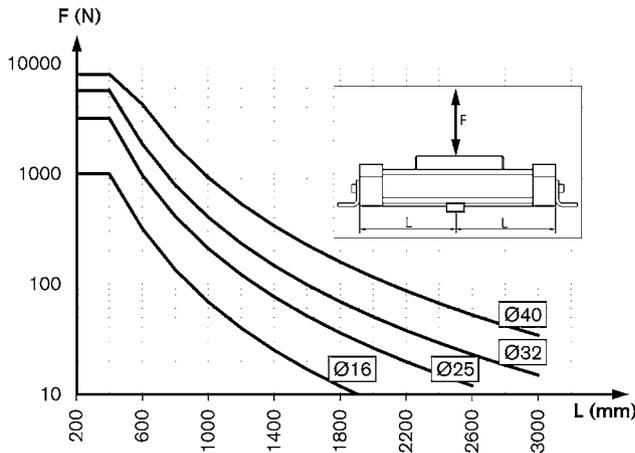


Limit diagram for pneumatic cushioning with vertical mounting



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.

Support span

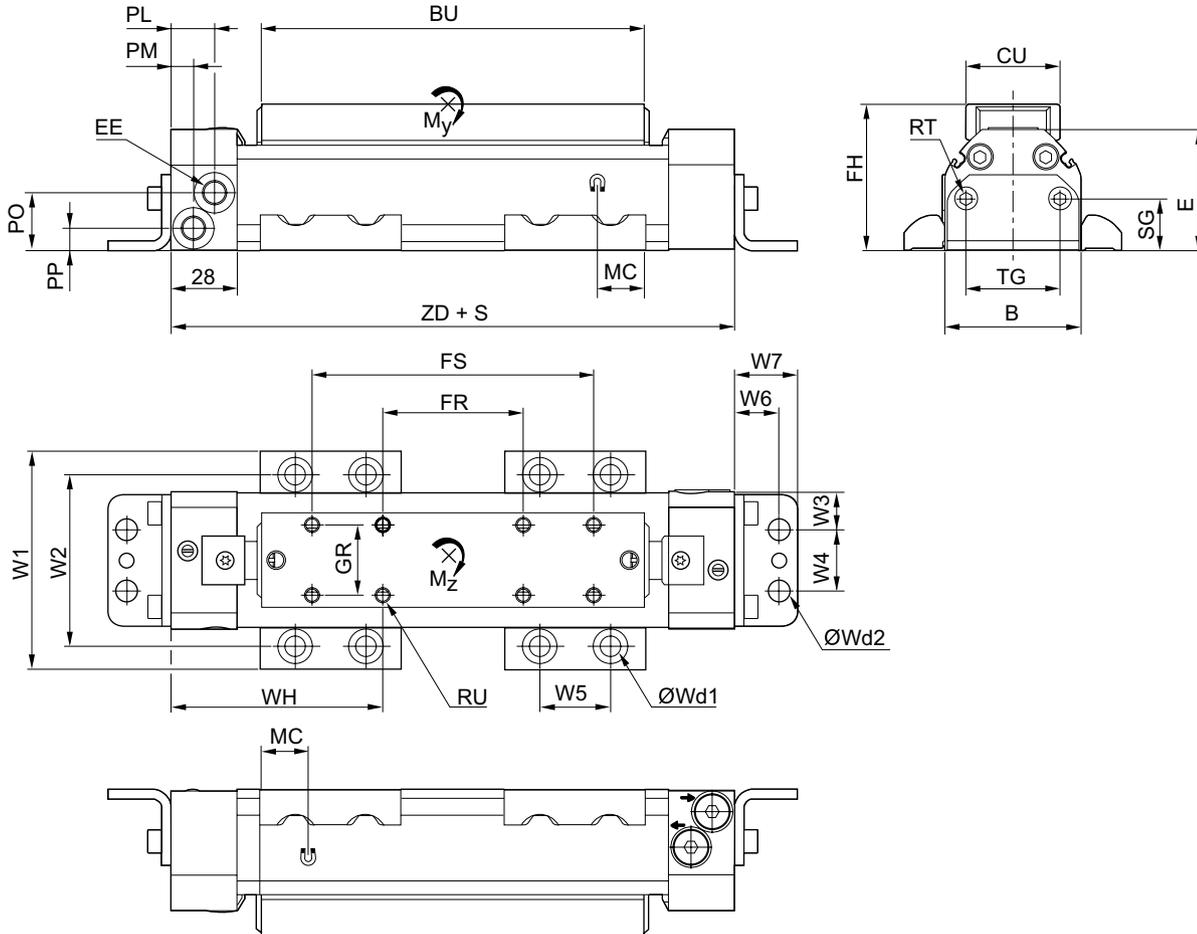


Max. support span L [mm] as a function of F [N] at a deflection of 0.5 mm

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Rodless cylinder, Series RTC-BV

► Ø 16 - 80 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► integrated guide ► Basic Version
 ► cushioning: pneumatically, adjustable

Piston Ø 16 - 80, Dimensions in mm

S = stroke

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Piston Ø	B	BU	CU	E	EE	FH	FR	FS	GR	MC	PL	PM	PO
16	34	118	26	36	M7	41	60	100	20	12	21.5	9	13.1
25	44	147	26	45.5	G 1/8	50.6	40	100	20	15	20	8	21.5
32	58	163	40	51.5	G 1/8	62.1	60	120	30	20	18.5	9.5	24.5
40	70	182	40	60.5	G 1/4	71.1	60	120	30	17	18	10	31.5
50	92	205	40	67.5	G 1/4	78.3	60	140	30	23	16	16	35.5
63	112	233	55	82.5	G 3/8	93.3	100	180	40	25	14	14	45.5
80	140	269	55	103.5	G 3/8	114.2	100	180	40	27	14	14	59.5

Piston Ø	PP	RT 1)	RU 2)	SG	TG	W1	W2	W3	W4	W5	W6	W7	Wd1
16	7.5	M5	M4	17.3	19	63	45.5	8	18	30	13.5	19.8	M6
25	9.3	M5	M4	17.3	19	73	55.5	13	18	30	13.5	19.8	M6
32	9.5	M6	M6	22	40	93	72.5	16	26	30	19	26.8	M8
40	11	M6	M6	22	40	105	84.5	22	26	30	19	26.8	M8
50	12.5	M8	M6	22	40	140	114.5	11	70	40	22	32.7	M12
63	14.5	M8	M8	30	80	160	134.5	31	50	40	22	32.7	M12
80	16.5	M8	M8	30	80	188	162.5	45	50	40	22	32.7	M12

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-BV

▶ Ø 16 - 80 mm ▶ Ports: M7 - G 3/8 ▶ double-acting ▶ with magnetic piston ▶ integrated guide ▶ Basic Version
 ▶ cushioning: pneumatically, adjustable

Piston Ø	Wd2	WH	ZD	M [kg] 3)									
16	M6	63.5	187	0.08									
25	M6	87.5	215	0.16									
32	M8	90	240	0.32									
40	M8	101.5	263	0.49									
50	M12	117.1	294.2	0.73									
63	M12	116.5	333.2	1.31									
80	M12	130.5	361	2.14									

1) thread depth: 9 mm for piston Ø 16–40 mm, 12 mm for piston Ø 50–80 mm

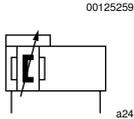
2) thread depth: 6 mm for piston Ø 16–25 mm, 10 mm for piston Ø 32–50 mm, 15 mm for piston Ø 63–80 mm

3) M = moving mass

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-CG

► Ø 16 - 40 mm ► Ports: M7 - G 1/4 ► double-acting ► with magnetic piston ► ball rail guide ► Compact Guide
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit



Working pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Covers	Aluminum, anodized
Seals	Polyurethane
Sealing strips	Polyurethane; Stainless steel
Ball rail table	Aluminum, anodized
Guide rail	Steel, hardened

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Technical Remarks

- 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.
- This product may only be operated with oil-free, dry compressed air.
- Use hydraulic shock absorbers for precise end position adjustment.

Piston Ø		[mm]	16	25	32	40
Piston force		[N]	127	309	507	792
Cushioning length		[mm]	20	20	20	20
Cushioning energy		[J]	1.5	4	7	10
Speed max.		[m/s]	2	2	2	2
Weight	0 mm stroke	[kg]	0.94	1.64	2.43	3.92
	+10 mm stroke	[kg]	0.026	0.041	0.056	0.075
Stroke max.		[mm]	1800	1800	1800	2000

	Piston Ø	16	25	32	40
	Ports	M7	G 1/8	G 1/8	G 1/4
	Stroke 200	R480148169	R480146993	R480154848	R480156966
	300	R480148470	R480146765	R480154708	R480150407
	400	R480153838	R480147184	R480148680	R480153577
	500	R480147715	R480146182	R480146674	R480146348
	600	R480146105	R480147519	R480146692	R480149794
	700	R480156308	R480146193	R480146396	R480156967
	800	-	R480148254	R480153429	R480146347
	900	-	-	R480156962	R480156968
	1000	-	-	R480153428	R480147888

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Rodless cylinder, Series RTC-CG

- Ø 16 - 40 mm ► Ports: M7 - G 1/4 ► double-acting ► with magnetic piston ► ball rail guide ► Compact Guide
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Configurable product

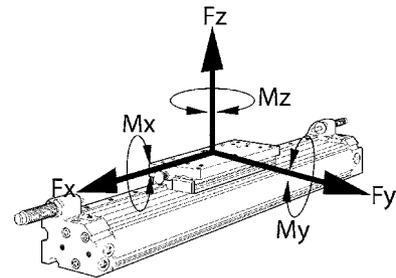


This product is configurable. Please use our Internet configurator at <http://www.rexrothpneumatics.com> or contact the nearest Rexroth Pneumatics sales office.

Permissible forces F_x , F_y , F_z and torques M_x , M_y , M_z

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

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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 www.rexrothpneumatics.com.

Static

Piston Ø	F_x [N]	F_y [N]	F_z [N]	M_x [Nm]	M_y [Nm]	M_z [Nm]								
16	744	744	744	4	30	30								
25	1456	1456	1456	10	78	78								
32	1840	1840	2646	22	158	110								
40	1640	1640	4284	36	284	109								

Dynamic

Piston Ø	M_x [Nm]	M_y [Nm]	M_z [Nm]											
16	4	30	30											
25	10	78	78											
32	22	158	110											
40	36	284	109											

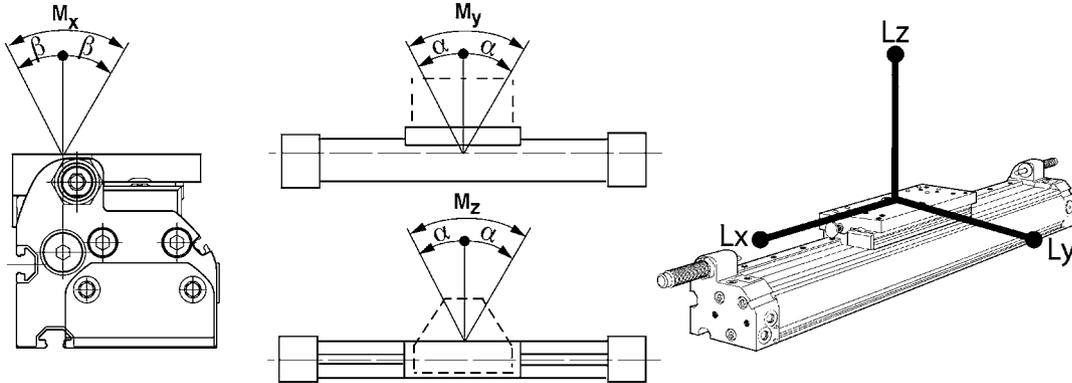
Recommended values for an expected lifetime of 3200 km

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-CG

- ▶ Ø 16 - 40 mm ▶ Ports: M7 - G 1/4 ▶ double-acting ▶ with magnetic piston ▶ ball rail guide ▶ Compact Guide
- ▶ cushioning: pneumatically, adjustable ▶ Easy-2-Combine-capable with connection kit

Max. play and recommended max. lever arm length

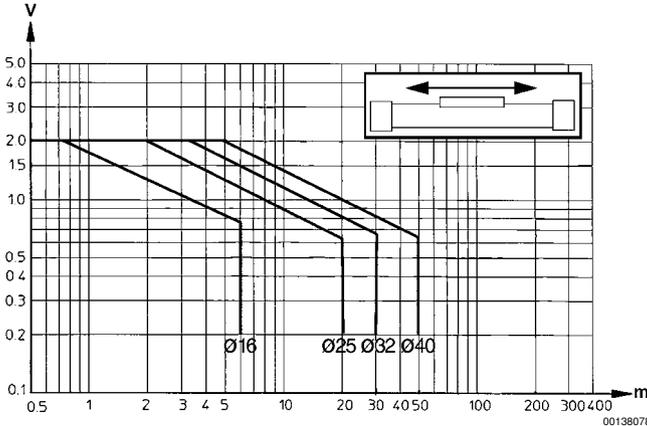


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L = lever arm

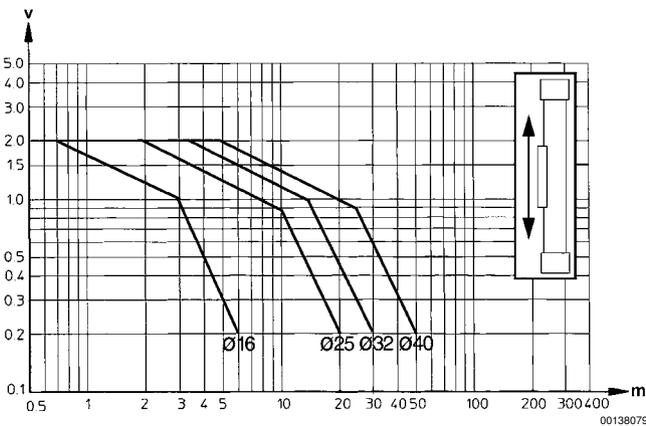
Piston Ø	α	β	Lx	Ly	Lz										
16	<0,1°	<0,2°	328	328	328										
25	<0,1°	<0,2°	424	424	424										
32	<0,1°	<0,2°	480	480	480										
40	<0,1°	<0,2°	532	532	532										

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.

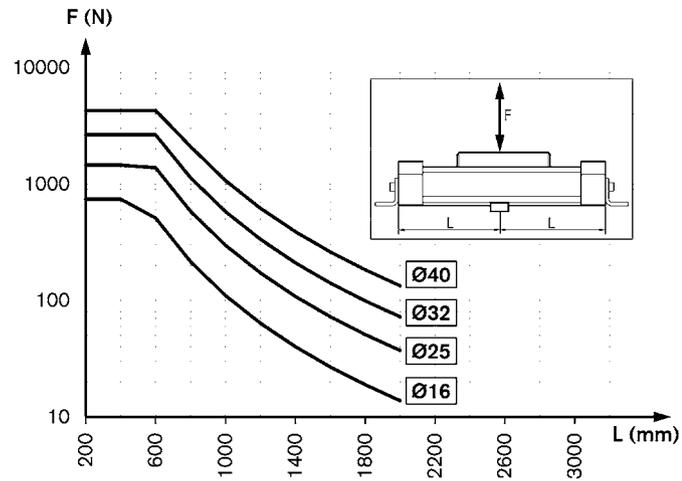
Limit diagram for pneumatic cushioning with vertical mounting



Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-CG

- ▶ Ø 16 - 40 mm ▶ Ports: M7 - G 1/4 ▶ double-acting ▶ with magnetic piston ▶ ball rail guide ▶ Compact Guide
- ▶ cushioning: pneumatically, adjustable ▶ Easy-2-Combine-capable with connection kit

Support span

00125845

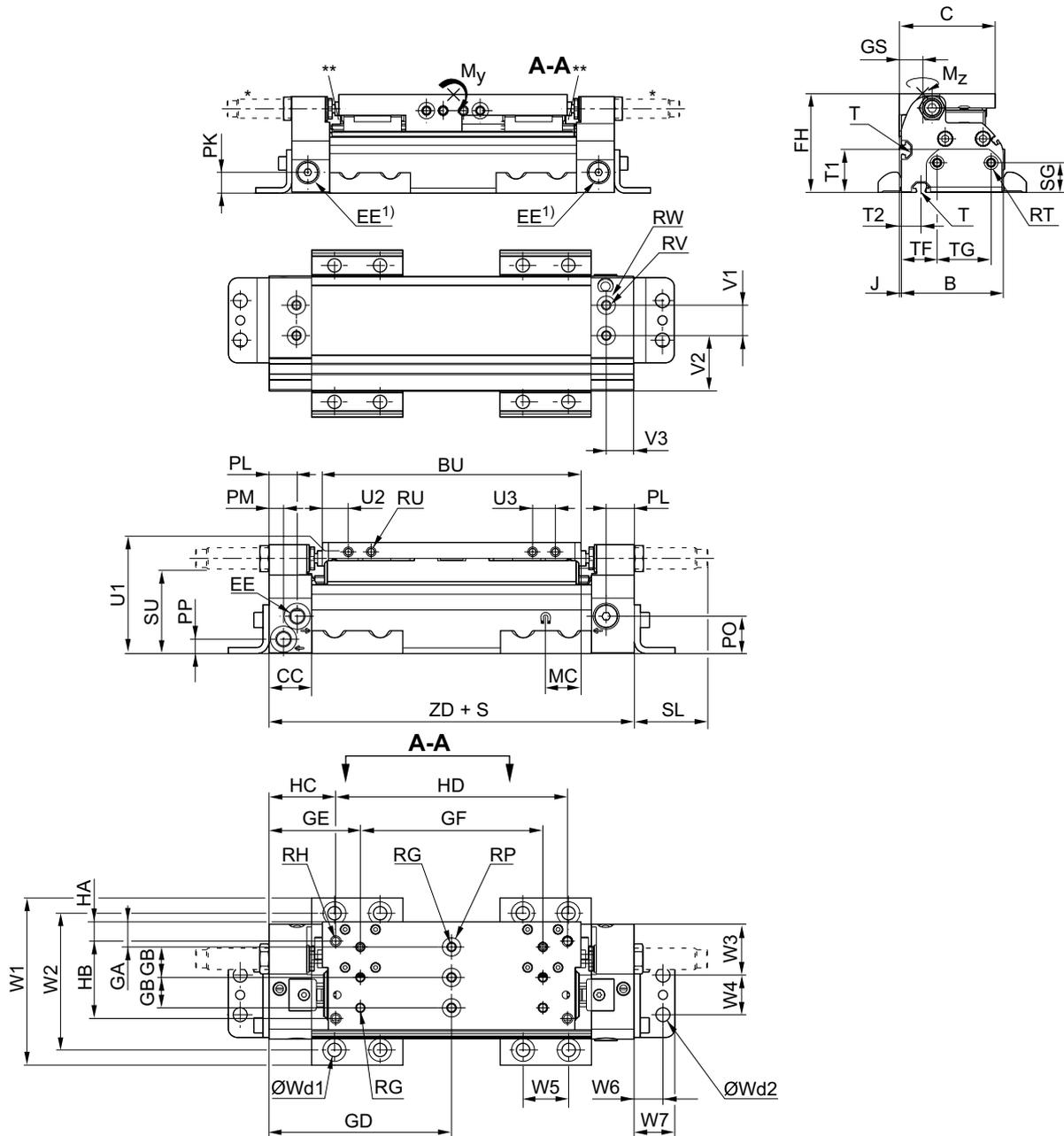
Max. support span L [mm] as a function of F [N] at a deflection of 0.5 mm

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-CG

► Ø 16 - 40 mm ► Ports: M7 - G 1/4 ► double-acting ► with magnetic piston ► ball rail guide ► Compact Guide
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Ø 16 - 40 mm, Dimensions in mm



00125263

S = stroke

T = Type of t-groove nut

1) Auxiliary air feeding

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

* Shock absorber optional in end cover for diameters 16-40

** RTC-CG 16 & 25: 2x Lube ports on each runner block

RTC-CG 32 & 40: Lube nipple of funnel type with thread connection M3

Piston Ø	B	C	BU	CC	EE	FH	GA	GB	GD	GE	GF	GS	HA
16	50	51	122	28	3xM7	54	7	20	93.5	38.5	110	11.5	7.6

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information
 Pneumatics catalog, online PDF, as of 2014-02-11, © Rexroth Pneumatics GmbH, subject to change

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-CG

► Ø 16 - 40 mm ► Ports: M7 - G 1/4 ► double-acting ► with magnetic piston ► ball rail guide ► Compact Guide
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Piston Ø	B	C	BU	CC	EE	FH	GA	GB	GD	GE	GF	GS	HA
25	62.5	58.1	147	28	3xG 1/8	65	6	20	107.5	53.5	108	15	5.1
32	75.5	71	170	28	3xG 1/8	73	16.5	20	120	60	120	17.5	12.7
40	85.5	74	186	28	3xG 1/4	94.4	16.5	20	131.6	71.6	120	18.5	12.7

Piston Ø	HB	HC	HD	J	MC	PK	PL	PM	PN	PO	PP	RG 1)	RH 2)
16	38.1	68.1	50.8	2	12	11.9	18	7	7	13.3	7.3	M5	UNC 1/4-20
25	45.7	38.9	137.2	1.5	15	10.1	20	8	9	21.5	9.3	M5	UNC 1/4-20
32	50.8	43.8	152.4	1.5	20	15	18.5	9.5	12	24.5	9.5	M6	UNC 1/4-20
40	50.8	55.4	152.4	1.5	17	18	18	10	11	31.5	10.5	M6	UNC 1/4-20

Piston Ø	RP	RT 3)	RU 4)	RV	RW	SG	SL	SU	T	V1	V2	V3	W1
16	Ø 9	M5	M5	M5x8	Ø 9H8x1,6	17.3	33.2	38.6	N4	20	6	14	78.4
25	Ø 9	M5	M6	M5x8	Ø 9H8x1,6	17.3	49.3	47.1	N6	20	26.5	18	90.9
32	Ø 12	M6	M6	M6x10	Ø 12H8x2,1	22	48.3	55.5	N6	20	36.5	18	109.9
40	Ø 12	M6	M6	M6x10	Ø 12H8x2,1	22	45.1	73.4	N6	20	40.5	18	119.9

Piston Ø	W2	W3	W4	W5	W6	W7	Wd1	Wd2	T1	T2	TF	TG	U1
16	61.4	24	18	30	13.5	19.8	M6	M6	18.5	10.5	25.5	19	48
25	73.9	31.5	18	30	13.5	19.8	M6	M6	26.6	13.5	31	19	59
32	89.9	33.5	26	30	19	26.8	M8	M8	31.5	14.5	26.5	40	67
40	99.9	37.5	26	30	19	26.8	M8	M8	41.4	13	30.5	40	79.4

Piston Ø	U2	U3	ZD	M [kg] 5)									
16	13	15	187	0.22									
25	13	27	215	0.4									
32	17	34	240	0.47									
40	25	34	263.1	0.97									

1) thread depth: 12 mm for piston Ø 16, 25 & 40 mm; 10,5 mm for piston Ø 32

2) thread depth: 12,7 mm for piston Ø 16-40 mm

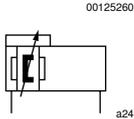
3) thread depth: 9 mm for piston Ø 16-40 mm

4) thread depth: 10 mm for piston Ø 16-40 mm

5) M = moving mass

Rodless cylinders → Rodless cylinders
Rodless cylinder, Series RTC-HD

► Ø 16 - 63 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► ball rail guide ► Heavy Duty
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit



Working pressure min./max.	4 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m ³ - 1 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Covers	Aluminum, anodized
Seals	Polyurethane
Sealing strips	Polyurethane; Stainless steel
Ball rail table	Aluminum, anodized
Guide rail	Steel, hardened

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Technical Remarks

- 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.
- This product may only be operated with oil-free, dry compressed air.
- Use hydraulic shock absorbers for precise end position adjustment.

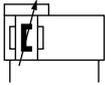
Piston Ø		[mm]	16	25	32	40	50
Piston force		[N]	127	309	507	792	1237
Cushioning length		[mm]	20	20	20	20	20
Cushioning energy		[J]	1.5	4	7	10	15
Speed max.		[m/s]	2	2	2	2	2
Weight	0 mm stroke	[kg]	1.62	2.96	3.9	6.58	8.94
	+10 mm stroke	[kg]	0.047	0.071	0.086	0.128	0.162
Stroke max.		[mm]	1800	4300	4300	4300	4300

Piston Ø		[mm]	63			
Piston force		[N]	1964			
Cushioning length		[mm]	20			
Cushioning energy		[J]	25			
Speed max.		[m/s]	2			
Weight	0 mm stroke	[kg]	11.75			
	+10 mm stroke	[kg]	0.193			
Stroke max.		[mm]	3700			

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-HD

► Ø 16 - 63 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► ball rail guide ► Heavy Duty
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

	Piston Ø Ports	16 M7	25 G 1/8	32 G 1/8	40 G 1/4	50 G 1/4
	Stroke 200	R480156949	R480149659	R480154726	R480155259	-
	300	R480156950	R480149553	R480148820	R480154424	-
	400	R480156951	R480150759	R480148602	R480154425	R480155175
	500	R480147724	R480147725	R480147726	R480147727	R480147728
	600	R480156953	R480153574	R480148603	R480148971	R480146987
	700	R480156954	R480156959	R480154001	R480149554	R480156943
	800	-	R480155572	R480150325	R480156710	R480149774
	900	-	-	R480156963	R480156969	R480156944
	1000	-	-	R480148582	R480150515	R480149030
		Piston Ø Ports	63 G 3/8			
	Stroke 200	-				
	300	-				
	400	R480156946				
	500	R480147729				
	600	R480156947				
	700	R480149638				
	800	R480154379				
	900	R480149592				
	1000	R480149031				

Configurable product

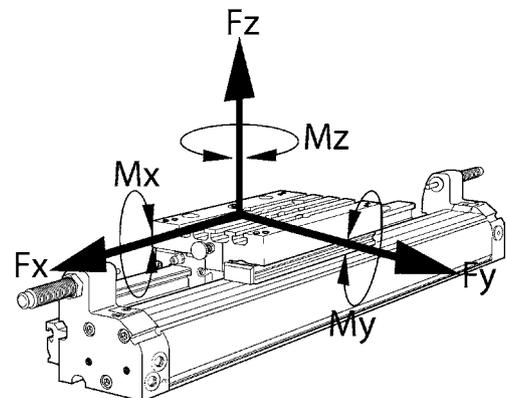


This product is configurable. Please use our Internet configurator at <http://www.rexrothpneumatics.com> or contact the nearest Rexroth Pneumatics sales office.

Permissible forces F_x , F_y , F_z and torques M_x , M_y , M_z

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

00125850



00125257

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 www.rexrothpneumatics.com.

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-HD

► Ø 16 - 63 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► ball rail guide ► Heavy Duty
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Static

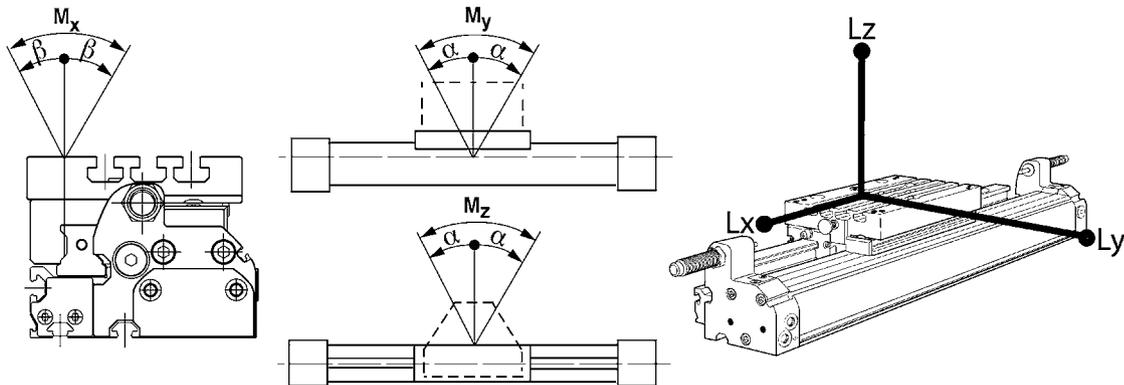
Piston Ø	F _x [N]	F _y [N]	F _z [N]	M _x [Nm]	M _y [Nm]	M _z [Nm]							
16	1640	1640	4284	34	138	53							
25	2640	2640	7810	100	336	114							
32	3760	3760	9952	154	502	190							
40	6840	6840	13922	254	764	376							
50	6840	6840	13922	254	924	455							
63	6840	6840	13922	254	1120	551							

Dynamic

Piston Ø	M _x [Nm]	M _y [Nm]	M _z [Nm]										
16	34	138	53										
25	100	336	114										
32	154	502	190										
40	254	764	376										
50	254	924	455										
63	254	1120	551										

Recommended values for an expected lifetime of 3200 km

Max. play and recommended max. lever arm length



L = lever arm

00125853

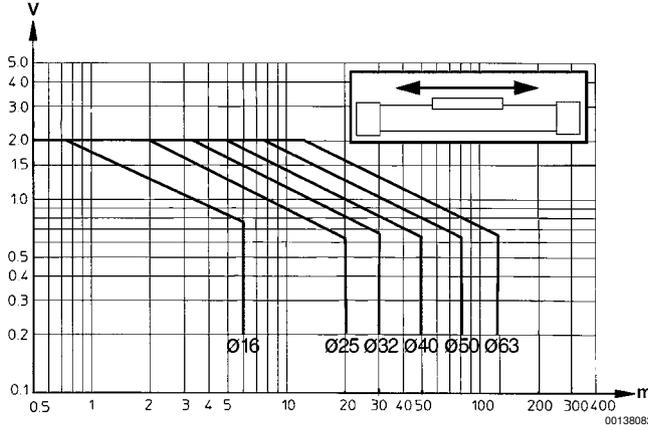
Piston Ø	α	β	L _x	L _y	L _z								
16	<0,1°	<0,2°	260	260	260								
25	<0,1°	<0,2°	344	344	344								
32	<0,1°	<0,2°	404	404	404								
40	<0,1°	<0,2°	440	440	440								
50	<0,1°	<0,2°	532	532	532								
63	<0,1°	<0,2°	644	644	644								

Rodless cylinders → Rodless cylinders

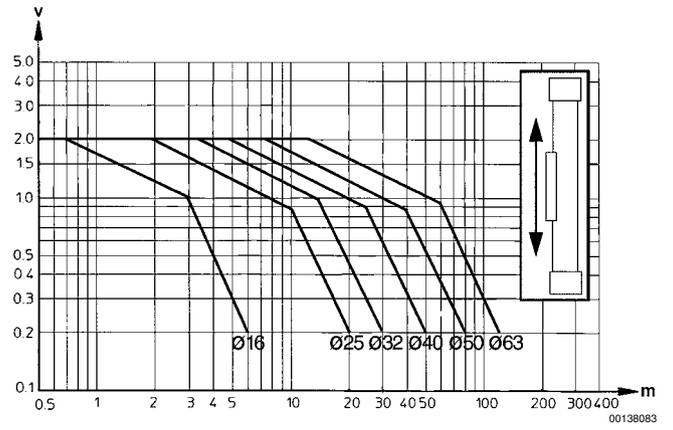
Rodless cylinder, Series RTC-HD

- ▶ Ø 16 - 63 mm ▶ Ports: M7 - G 3/8 ▶ double-acting ▶ with magnetic piston ▶ ball rail guide ▶ Heavy Duty
- ▶ cushioning: pneumatically, adjustable ▶ Easy-2-Combine-capable with connection kit

Limit diagram for pneumatic cushioning with horizontal mounting

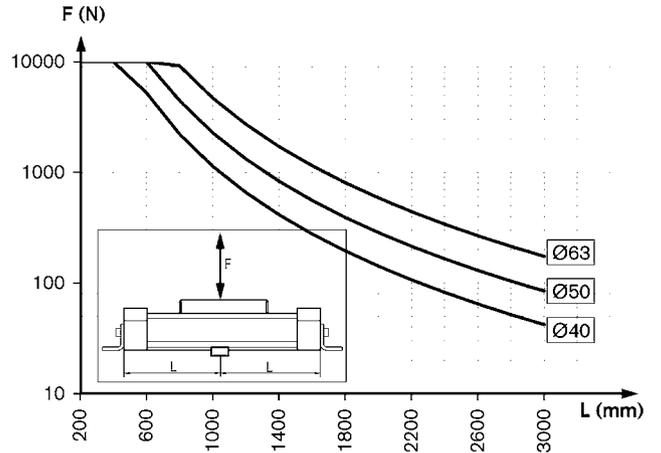
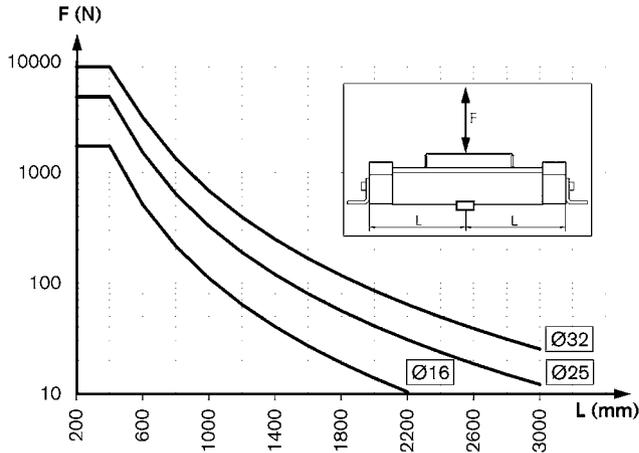


Limit diagram for pneumatic cushioning with vertical mounting



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.

Support span



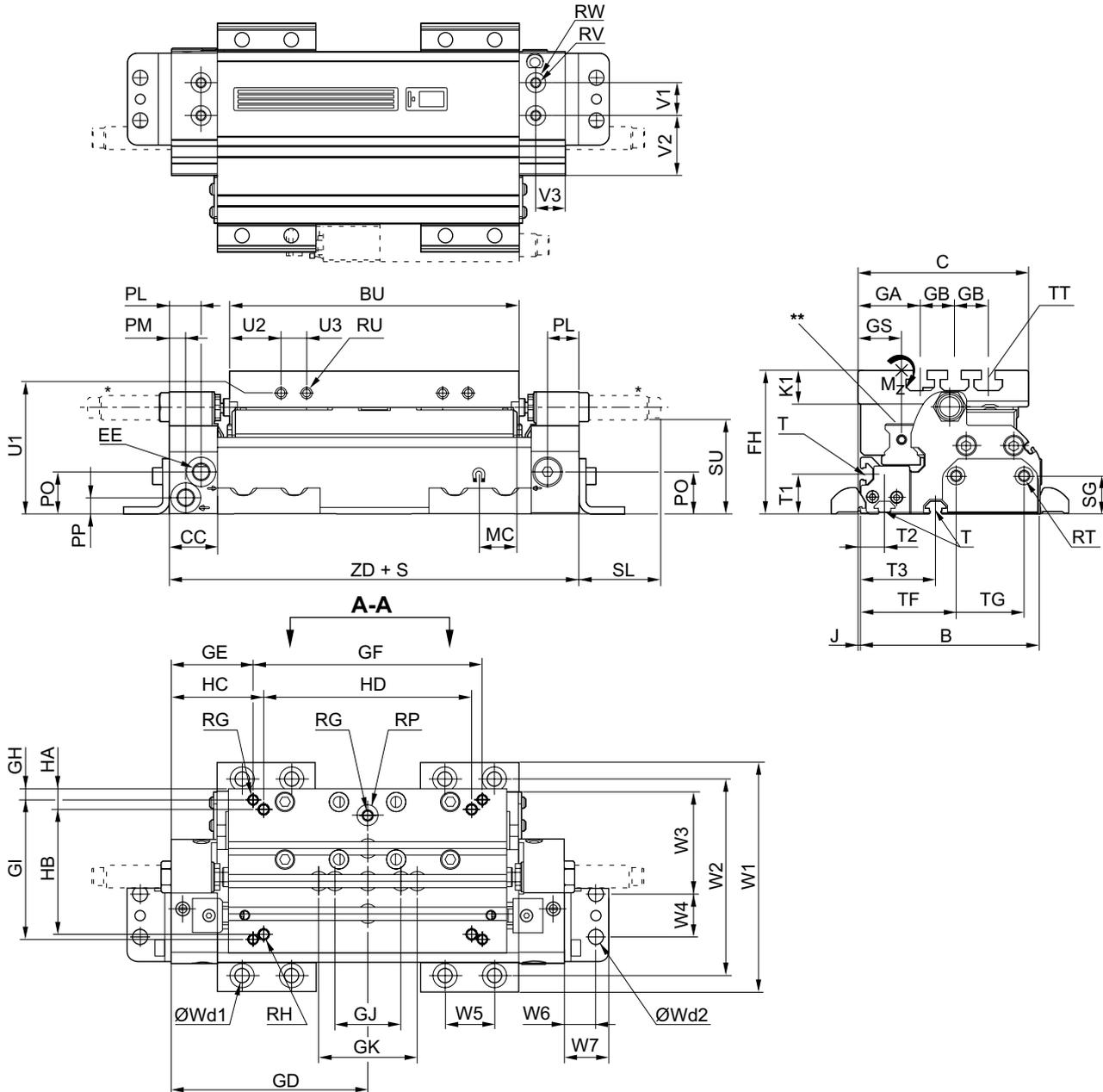
Max. support span L [mm] as a function of F [N] at a deflection of 0.5 mm

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-HD

► Ø 16 - 63 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► ball rail guide ► Heavy Duty
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Ø 16 - 63 mm, Dimensions in mm



00125264

S = stroke

T = Type of t-groove nut

TT = Type of t-groove nut

* Shock absorber optional in end cover for diameters 16-40

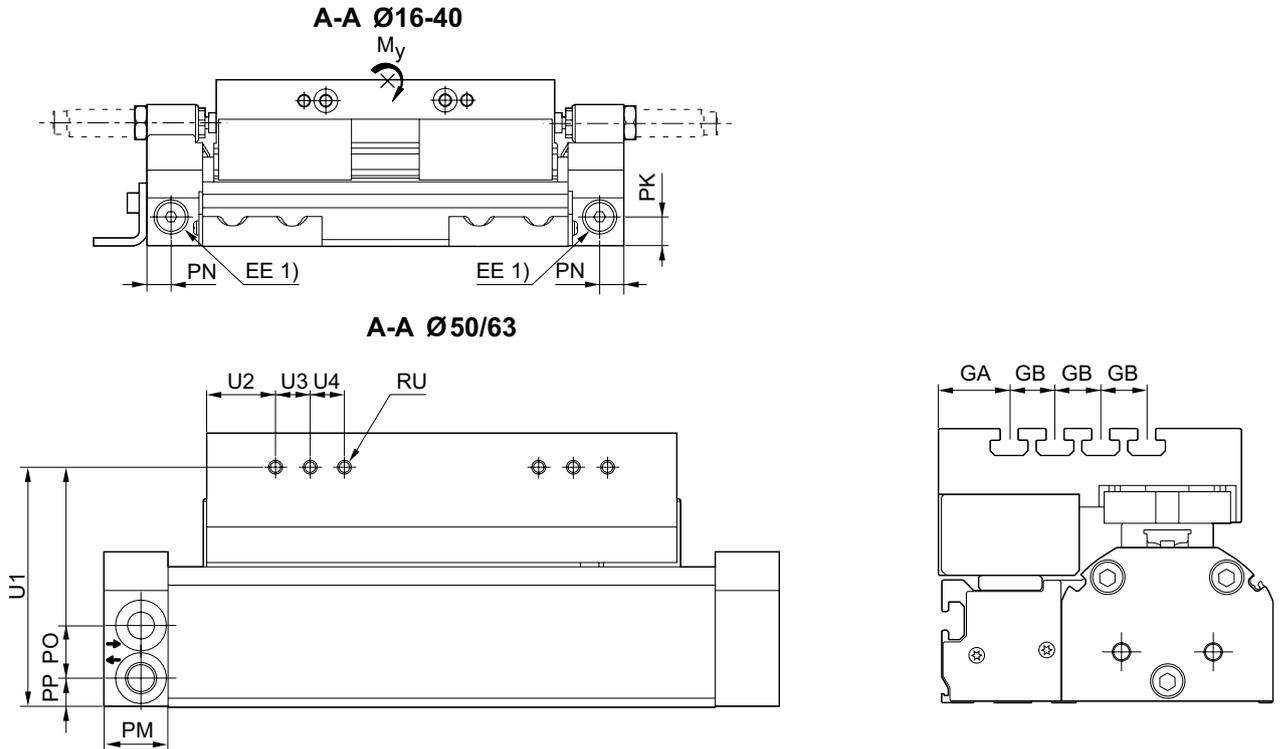
** RTC-HD 16 & 25: funnel type lube nipple with thread M3

RTC-HD 32 - 63: lube nipple DIN 71412 with thread M6

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-HD

- ▶ Ø 16 - 63 mm ▶ Ports: M7 - G 3/8 ▶ double-acting ▶ with magnetic piston ▶ ball rail guide ▶ Heavy Duty
- ▶ cushioning: pneumatically, adjustable ▶ Easy-2-Combine-capable with connection kit



00125265

1) Auxiliary air feeding

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Piston Ø	B	C	BU	CC	EE	FH	GA	GB	GD	GE	GF	GH	GI
16	82	82	122	28	M7	60	27	20	93.5	43.5	100	5	20/20/20
25	103	99.5	147	28	G 1/8	70	26	20	107.5	52.5	110	16	20/40
32	105	100	170	28	G 1/8	83.8	36.5	20	120	50	140	6.7	85
40	132	122	186	28	G 1/4	97.7	36.5	20	131.5	46.5	170	10	100
50	144.5	132.5	205	28	G 1/4	119.4	31	20	147.3	52.3	190	10	100
63	161	139	233	28	G 3/8	129.4	31	20	166.5	71.5	190	10	100

Piston Ø	GJ	GK	GS	HA	HB	HC	HD	J	K1	MC	PK	PL	PM
16	40	-	32	7.6	69.9	55.4	76.2	1.5	20.7	12	11.9	18	7
25	40	-	37	6.4	83.8	44	127	1.5	21.4	15	10.1	20	8
32	40	60	25.5	12.7	76.2	56.5	127	1.5	19.7	20	15	18.5	9.5
40	40	60	31.5	12.7	101.6	55.4	152.4	1.5	25.6	17	18	18	10
50	40	60	31.5	15.2	99.06	66	162.6	1.5	28.6	23	N/A	16	16
63	40	60	31.5	15.2	101.6	59.8	213.4	1.5	28.6	25	N/A	14	14

Piston Ø	PN	PO	PP	RG 1)	RH 2)	RP	RT 3)	RU 4)	RV	RW	SG	SL
16	7	13.3	7.3	M5	UNC 1/4-20	Ø 9	M5	M5	M5x8	Ø 9H8x1,6	17.3	33.2
25	9	21.5	9.3	M5	UNC 1/4-20	Ø 9	M5	M6	M5x8	Ø 9H8x1,6	17.3	49.3
32	12	24.5	9.5	M6	UNC 1/4-20	Ø 12	M6	M6	M6x10	Ø 12H8x2,1	22	48.3
40	11	31.5	10.5	M6	UNC 1/4-20	Ø 12	M6	M6	M6x10	Ø 12H8x2,1	22	45.1
50	N/A	35	12	M8	UNC 5/16-18	Ø 12	M8	M5	-	-	22	N/A
63	N/A	45.5	14.5	M8	UNC 5/16-18	Ø 12	M8	M5	-	-	30	N/A

Piston Ø	SU	T	TT	V1	V2	V3	W1	W2	W3	W4	W5	W6	W7
16	38.6	N4	N6	20	6	14	110.4	93.4	56	18	30	13.5	19.8

Rodless cylinders → Rodless cylinders

Rodless cylinder, Series RTC-HD

► Ø 16 - 63 mm ► Ports: M7 - G 3/8 ► double-acting ► with magnetic piston ► ball rail guide ► Heavy Duty
 ► cushioning: pneumatically, adjustable ► Easy-2-Combine-capable with connection kit

Piston Ø	SU	T	TT	V1	V2	V3	W1	W2	W3	W4	W5	W6	W7
25	47.1	N6	N6	20	36.5	18	131.4	114.4	72	18	30	13.5	19.8
32	55.5	N6	N8	20	36.5	18	139.4	119.4	63	26	30	19	26.8
40	73.4	N6	N8	20	40.5	18	166.4	146.4	84	26	30	19	26.8
50	N/A	N8	N8	-	-	-	192.1	166.9	63.5	70	40	22	32.7
63	N/A	N8	N8	-	-	-	208.6	183.4	80	50	40	22	32.7

Piston Ø	Wd1	Wd2	T1	T2	T3	TF	TG	U1	U2	U3	U4	ZD	M [kg] 5)
16	M6	M6	20.8	13.7	-	55.5	19	47	16.5	15	15	187	0.64
25	M6	M6	20	14	54	71.5	19	57	18	21.5	15	215	1.25
32	M8	M8	23	14	44	56	40	71	30	21	15	240	1.4
40	M8	M8	24.7	29.5	59.5	77	40	82.7	30	29	15	263.1	2.57
50	M12	M12	35.6	18.5	43.5	78.5	40	104.4	30	15	15	294.6	3.19
63	M12	M12	45.6	17	39.5	65	80	114.4	30	15	15	333	3.46

1) thread depth: 12 mm for piston Ø 16–25, 16 mm for piston Ø 32–40, 14 mm for piston Ø 50–63

2) thread depth: 12,7 mm for piston Ø 16–63 mm

3) thread depth: 9 mm for piston Ø 16–40 mm, 12 mm for piston Ø 50–63 mm

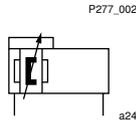
4) thread depth: 10 mm for piston Ø 16–63 mm

5) M = moving mass

Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► Slide bearing guide ► cushioning: pneumatically, adjustable



Working pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Covers	Aluminum, anodized
Seals	Polyurethane
Sealing strips	Stainless steel; Polyurethane
Guide shuttle	Aluminum, anodized
Slide bearing guide	Polyethylene

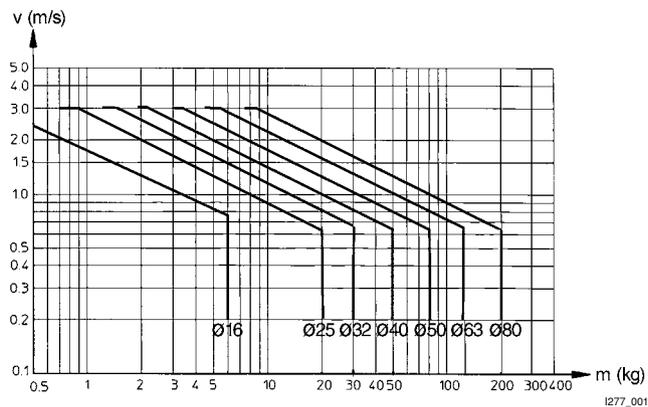
Piston Ø		[mm]	16	25	32	
Piston force		[N]	127	309	507	
Cushioning length		[mm]	20	20	20	
Speed max.		[m/s]	5.5	6.5	4	
Weight	0 mm stroke	[kg]	0.76	1.38	2.15	
	+10 mm stroke	[kg]	0.023	0.038	0.047	
Stroke max.		[mm]	6669	6641	6616	

Configurable product



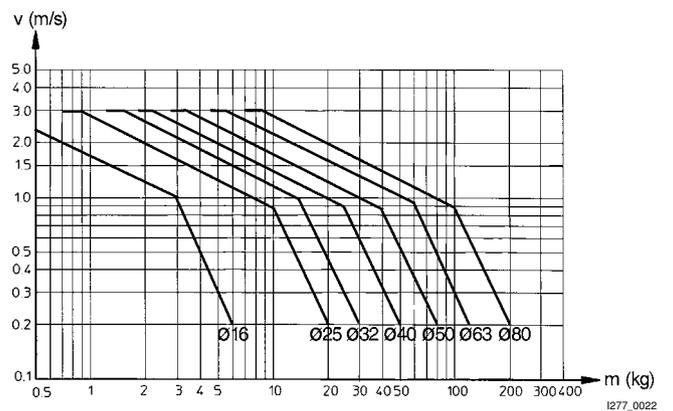
This product is configurable. Please use our Internet configurator at <http://www.rexrothpneumatics.com> or contact the nearest Rexroth Pneumatics sales office.

Cushioning diagram, Horizontally mounted



v = Piston velocity [m/s]
m = Cushionable mass [kg]

Vertically mounted

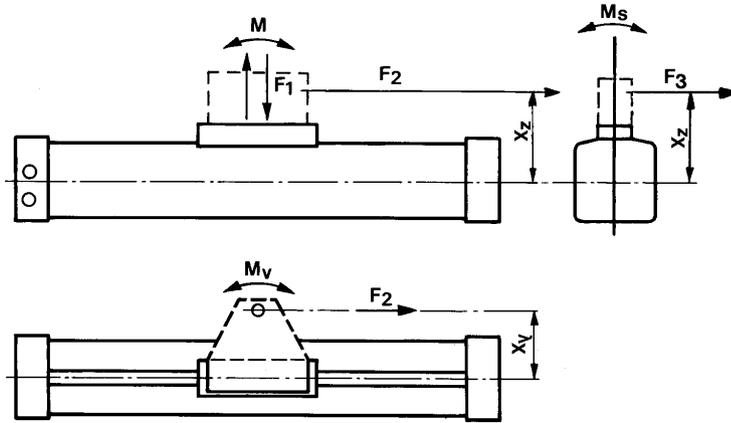


Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► Slide bearing guide ► cushioning: pneumatically, adjustable

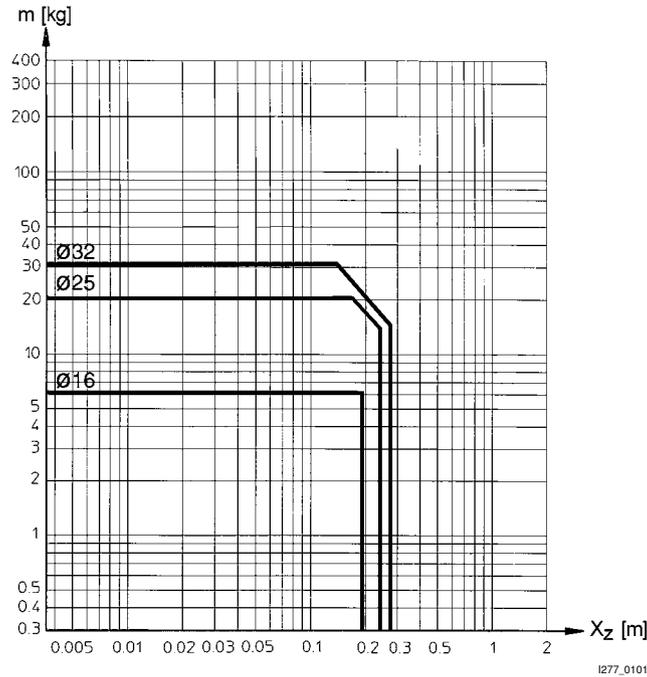
Permissible static forces F1, F2, F3 and torques M, Mv, Ms



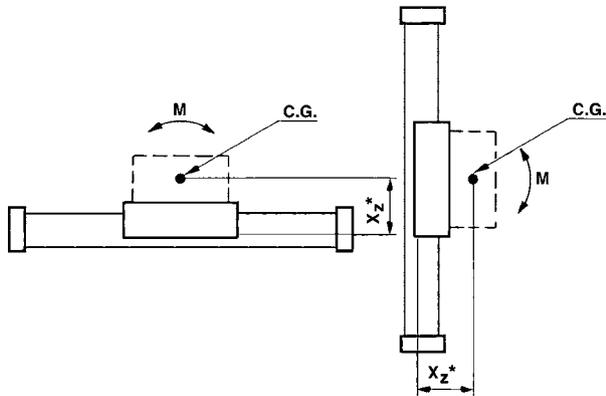
1130_005

Ø	F1 [N]	F2 [N]	F3 [N]	M [Nm]	Mv [Nm]	Ms [Nm]								
16	1600	800	350	25	25	10								
25	2300	1800	700	50	50	25								
32	2600	2200	1000	80	80	50								

Torque dimensioning M [Nm]



1277_0101



1277_02446

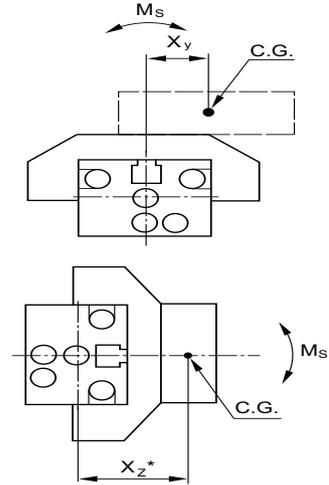
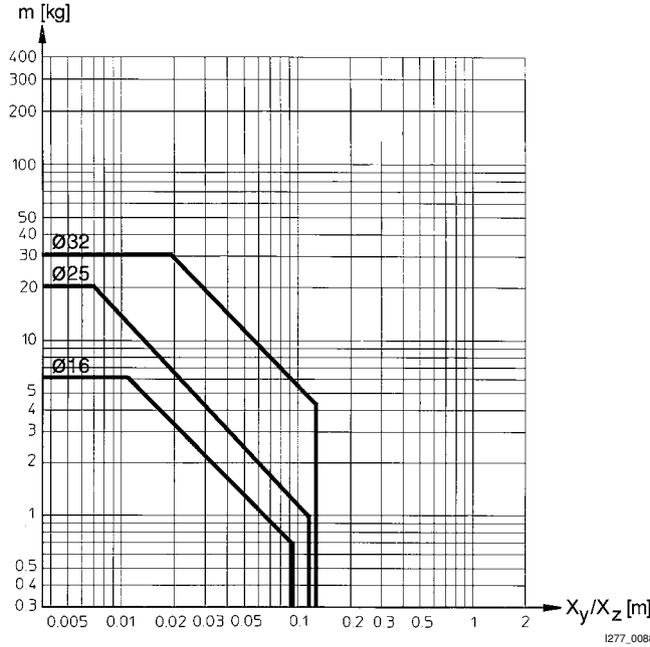
* The measure EH must be included in Xz, see the dimensional drawings.

Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► Slide bearing guide ► cushioning: pneumatically, adjustable

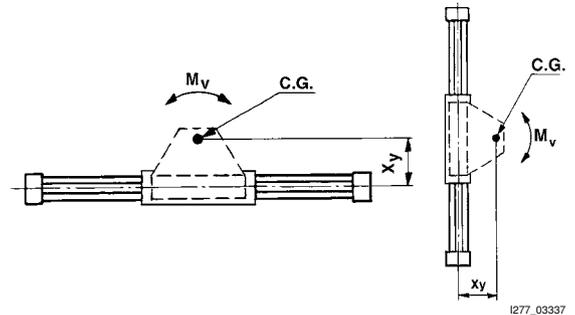
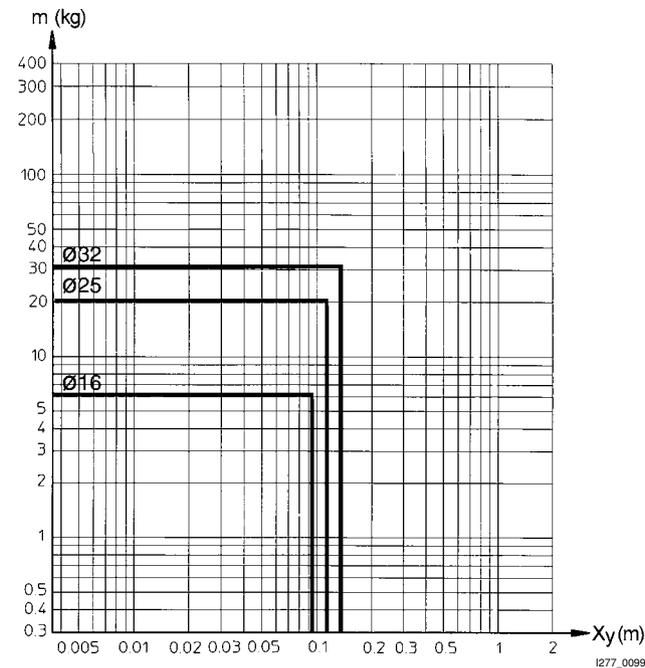
Torque dimensioning Ms [Nm]



1277_02831

* The measure EH must be included in Xz, see the dimensional drawings.

Torque dimensioning Mv [Nm]



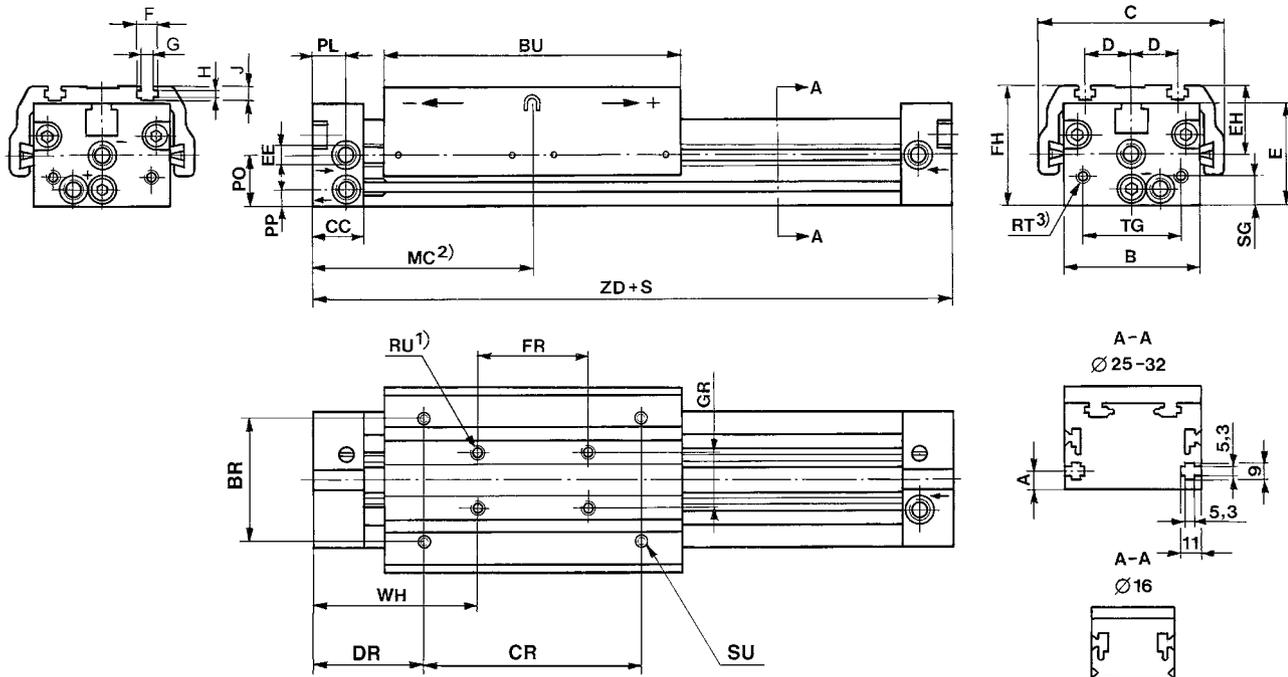
1277_03337

Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► Slide bearing guide ► cushioning: pneumatically adjustable

Dimensions



D277_010

S = stroke

Ø	A	B	C	D	E	F	G	H	J	BR	BU	CC	CR	DR
16	-	45	68	20	40,5	7,7	4,5	2,9	5,9	26,6	118	28	60	63,5
25	8,8	59	82	20	50,8	7,7	4,5	2,9	5,9	54,4	147	28	80	67,5
32	10	75	102	25	56	11	6,6	4	7,5	68	163	28	100	70

Ø	EE	FH	EH	FR	GR	MC 2)	PL	PO	PP	RT 3)	RU 1)	SG	SU	TG
16	M7	44,3	25,5	40	18	93,5	17,5	18,8	6,8	M5	M4	13	M5	35,5
25	G 1/8	54,8	29,0	60	18	107,5	18,5	25,8	8,8	M6	M4	16	M6	46
32	G 1/8	65,1	38,0	60	30	120	18,5	27	8,5	M6	M6	15,2	M6	54

Ø	WH	ZD												
16	73,5	187												
25	77,5	215												
32	90	240												

1) thread depth: 6 mm for piston Ø 16–25 mm, 10 mm for piston Ø 32 mm

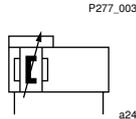
2) position of the magnet in the shuttle

3) thread depth: 8 mm

Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► long slide bearing guide ► cushioning: pneumatically, adjustable



Working pressure min./max.	2 bar / 8 bar
Ambient temperature min./max.	-10 °C / +60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

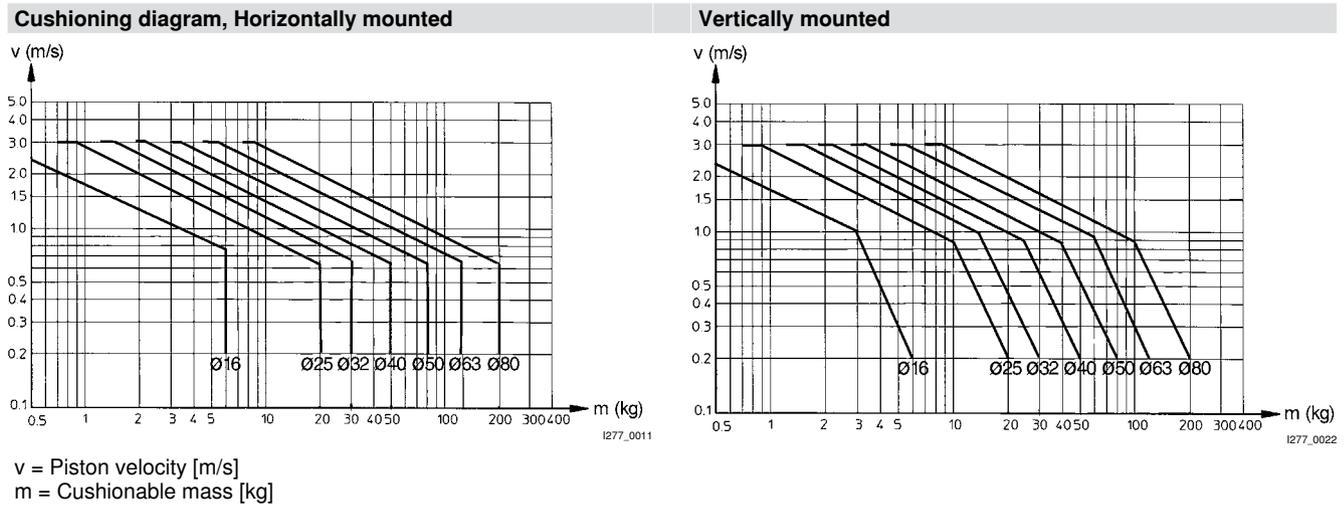
Materials:	
Cylinder tube	Aluminum, anodized
Covers	Aluminum, anodized
Seals	Polyurethane
Sealing strips	Stainless steel; Polyurethane
Guide shuttle	Aluminum, anodized
Slide bearing guide	Polyethylene

Piston Ø		[mm]	16	25	32	
Piston force		[N]	127	309	507	
Cushioning length		[mm]	20	20	20	
Speed max.		[m/s]	5.5	6.5	4	
Weight	0 mm stroke	[kg]	1	1.79	2.93	
	+10 mm stroke	[kg]	0.023	0.038	0.047	
Stroke max.		[mm]	6551	6494	6453	

Configurable product



This product is configurable. Please use our Internet configurator at <http://www.rexrothpneumatics.com> or contact the nearest Rexroth Pneumatics sales office.

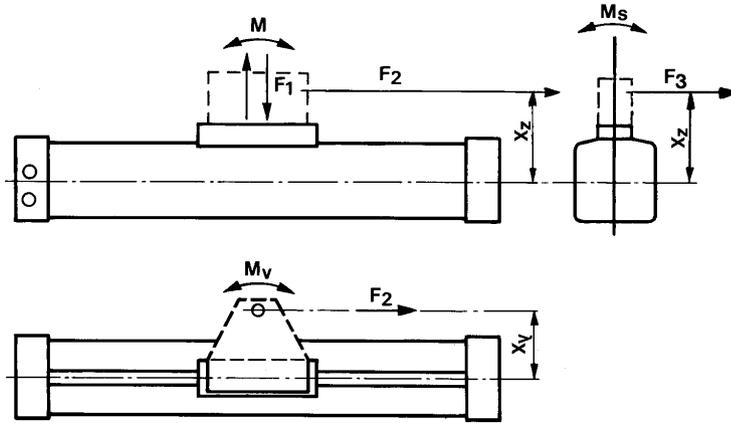


Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► long slide bearing guide ► cushioning: pneumatically, adjustable

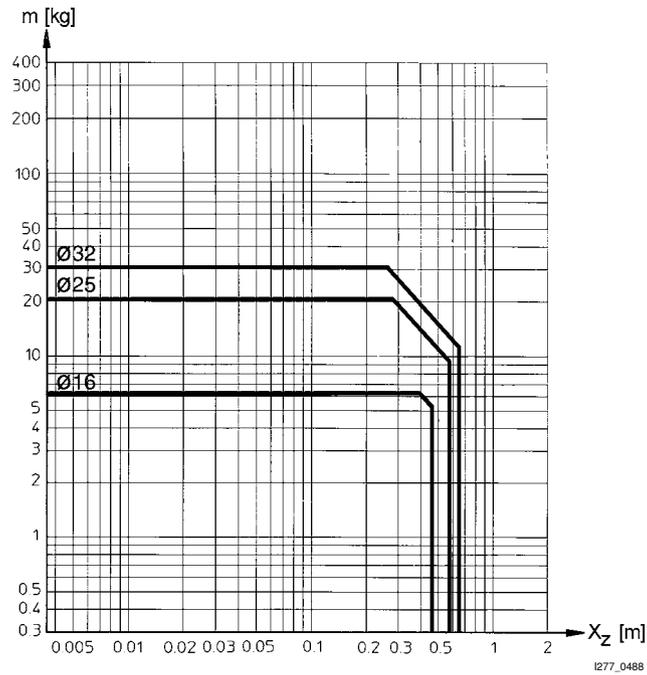
Permissible static forces F1, F2, F3 and torques M, Mv, Ms



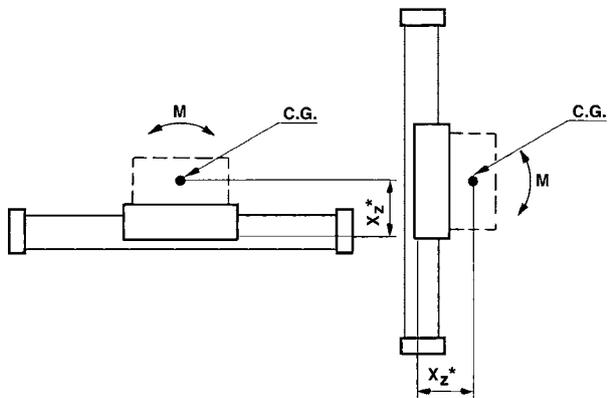
1130_005

Ø	F1 [N]	F2 [N]	F3 [N]	M [Nm]	Mv [Nm]	Ms [Nm]								
16	2200	800	550	45	45	15								
25	3200	1800	1200	100	100	40								
32	3800	2200	1400	160	160	80								

Torque dimensioning M [Nm]



1277_0488



1277_02446

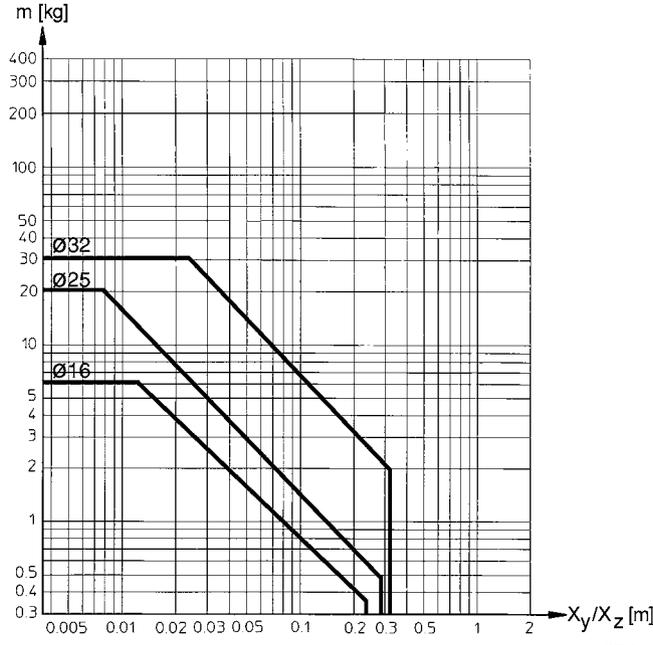
* The measure EH must be included in Xz, see the dimensional drawings.

Rodless cylinders → Rodless cylinders

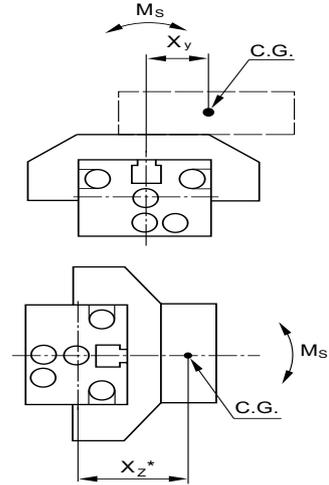
Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► long slide bearing guide ► cushioning: pneumatically, adjustable

Torque dimensioning Ms [Nm]



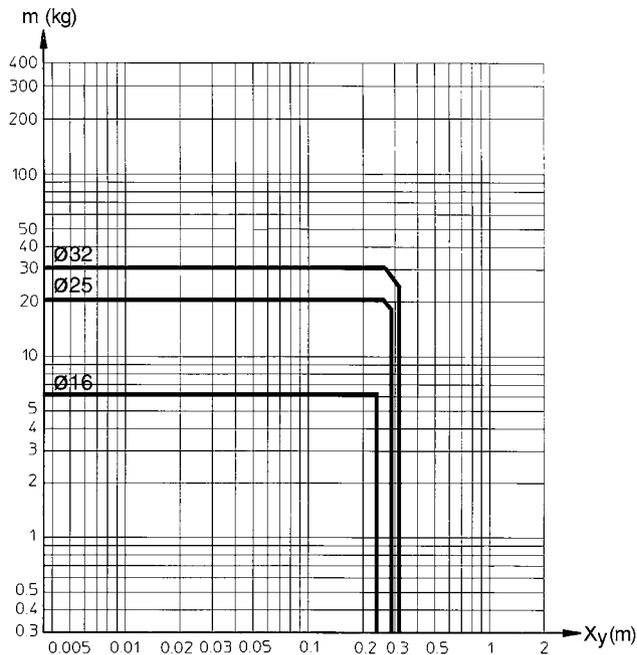
1277_0111



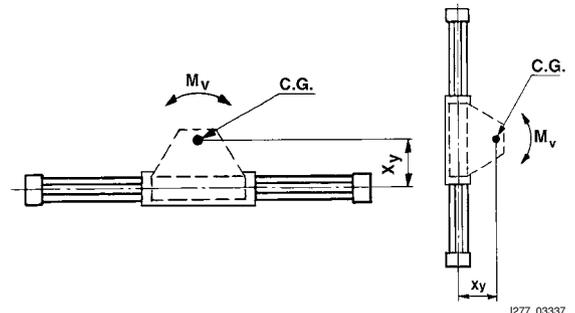
1277_02831

* The measure EH must be included in Xz, see the dimensional drawings.

Torque dimensioning Mv [Nm]



1277_0122



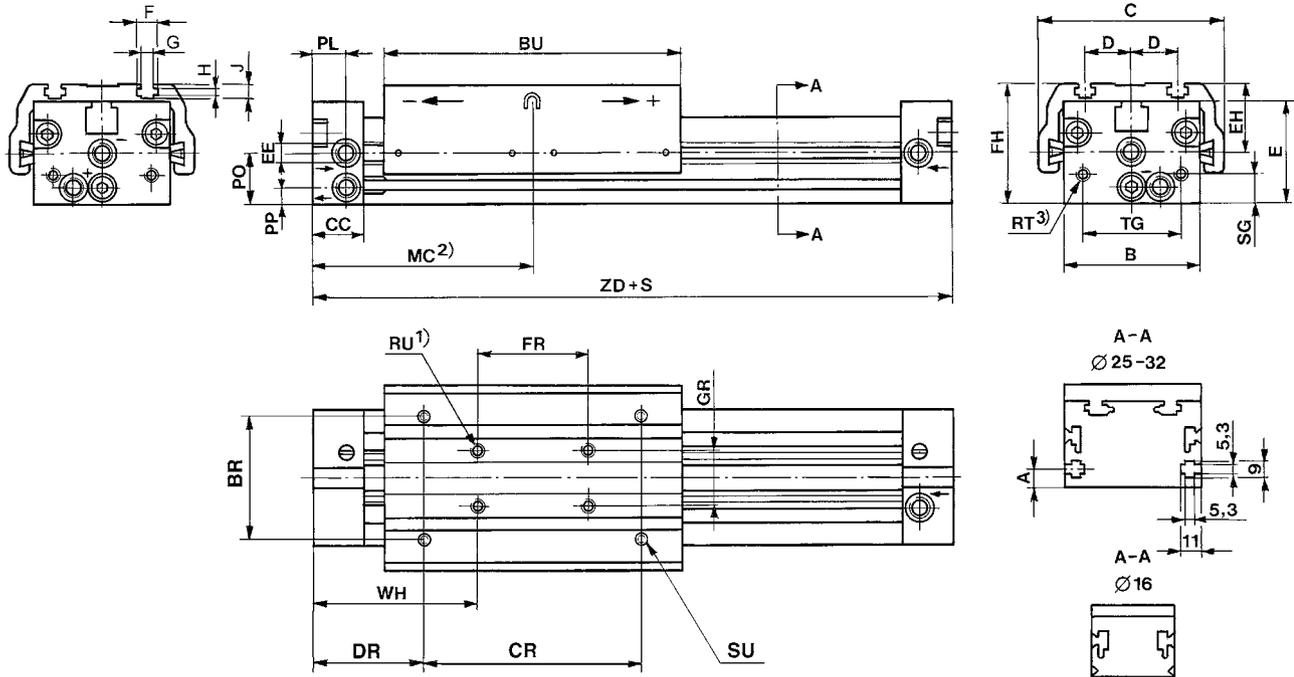
1277_03337

Rodless cylinders → Rodless cylinders

Rodless cylinders, Series RTC-SB

► Ø 16 - 32 mm ► double-acting ► with magnetic piston ► long slide bearing guide ► cushioning: pneumatically, adjustable

Dimensions



D277_010_a

S = stroke

Ø	A	B	C	D	E	F	G	H	J	BR	BU	CC	CR	DR
16	-	45	68	20	40,5	7,7	4,5	2,9	5,9	26,6	236	28	120	92
25	8,8	59	82	20	50,8	7,7	4,5	2,9	5,9	54,4	294	28	160	101
32	10	75	102	25	56	11	6,6	4	7,5	68	326	28	200	101,5

Ø	EE	FH	EH	FR	GR	MC 2)	PL	PO	PP	RT 3)	RU 1)	SG	SU	TG
16	M7	44,3	25,5	40	18	152,5	17,5	18,8	6,8	M5	M4	13	M 5	35,5
25	G 1/8	54,8	29,0	60	18	181	18,5	25,8	8,8	M6	M4	16	M6	46
32	G 1/8	65,1	38,0	60	30	201,5	18,5	27	8,5	M6	M6	15,2	M6	54

Ø	WH	ZD												
16	132	305												
25	151	362												
32	171,5	403												

1) thread depth: 6 mm for piston Ø 16–25 mm, 10 mm for piston Ø 32 mm

2) position of the magnet in the shuttle

3) thread depth: 8 mm

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Kit for intermediate-stop adjustment

► for RTC-CG, RTC-HD

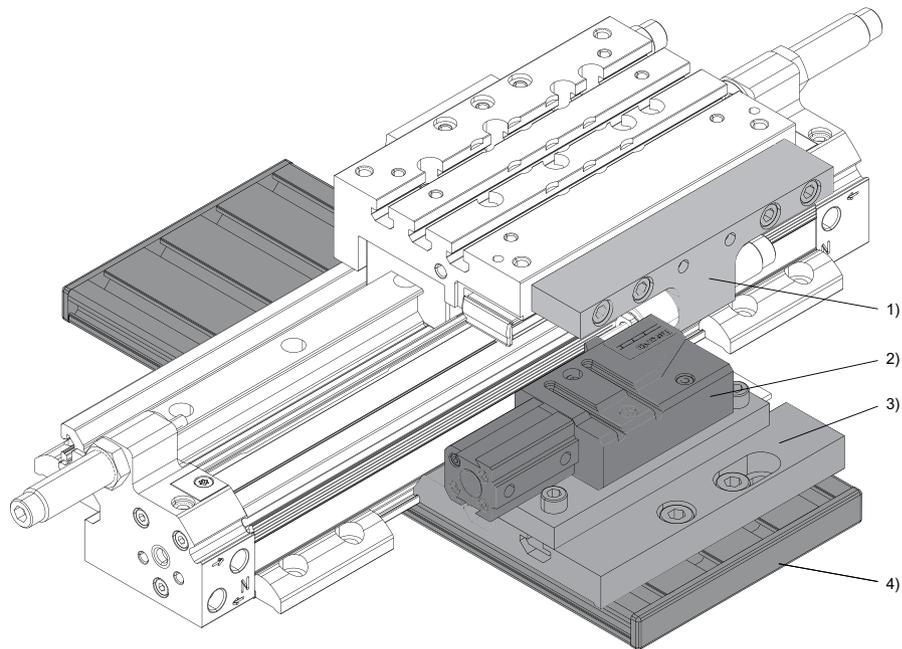


20463

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from Rexroth Pneumatics, see chapter „Technical information“.
- A parts kit always consists of several individual parts.

Overview drawing



20462

- 1) Shock absorber parts kit
- 2) Parts set for intermediate stop
- 3) Clamping plate parts kit
- 4) Parts kit for 15x120 profile

Rodless cylinders → Rodless cylinders

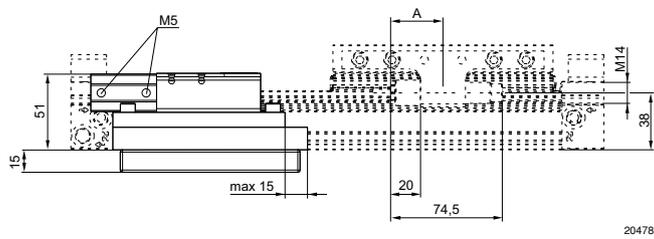
Series RTC

Accessories

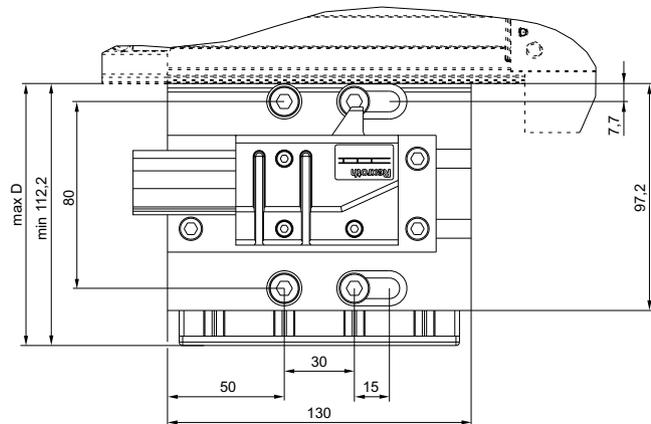
Part No.	Ø25	Ø32	Ø40								
R402005896	RTC-CG	-	-	1)							
R402005897	-	RTC-CG	-	1)							
R402005898	-	-	RTC-CG	1)							
R402005899	RTC-HD	-	-	1)							
R402005900	-	RTC-HD	-	1)							
R402005901	-	-	RTC-HD	1)							
R402005904	RTC-CG	RTC-CG	RTC-CG	2)							
	RTC-HD	RTC-HD	RTC-HD								
R402005902	RTC-CG	RTC-CG	RTC-CG	3)							
	RTC-HD	RTC-HD	RTC-HD								
R412019227	RTC-CG	RTC-CG	RTC-CG	4)							
	RTC-HD	RTC-HD	RTC-HD								

- 1) Shock absorber parts kit
 2) Parts set for intermediate stop
 3) Clamping plate parts kit
 4) Parts kit for 15x120 profile
 Order the shock absorber separately

Dimensions



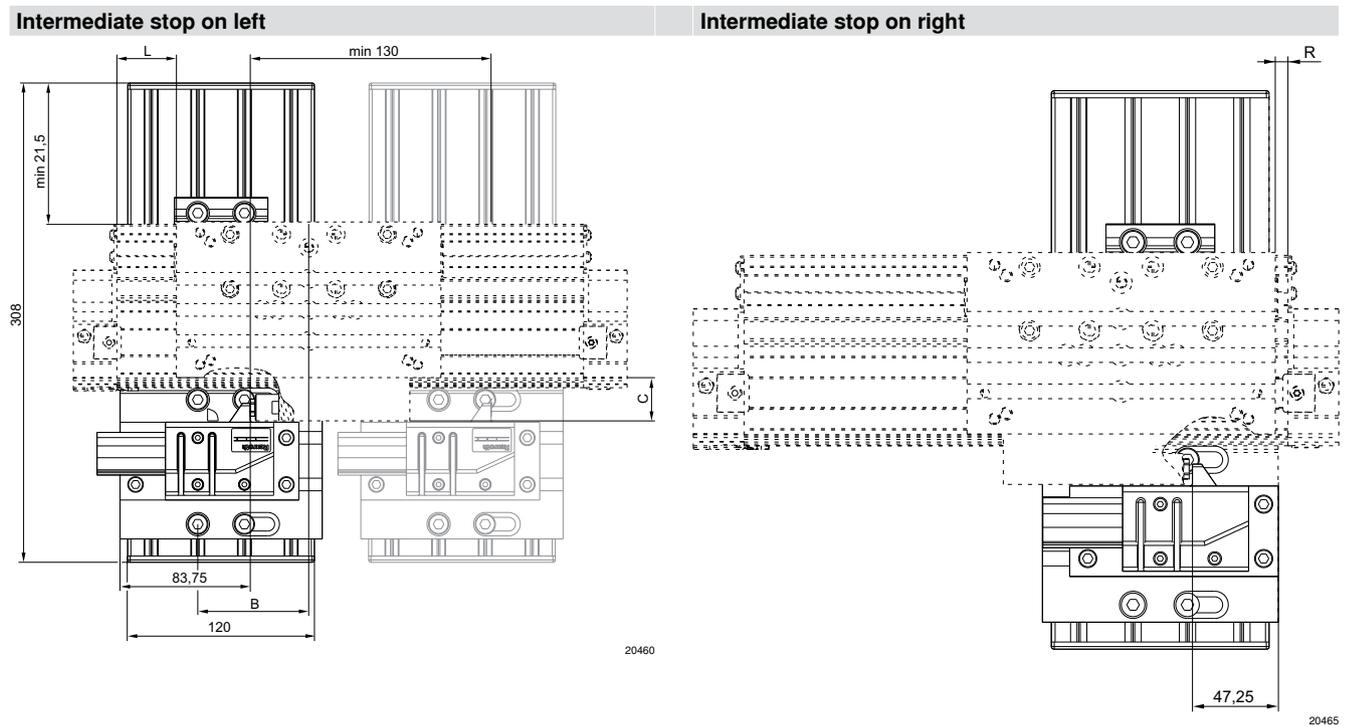
20478



21267

Rodless cylinders → Rodless cylinders

Series RTC
Accessories



Part No.	A	B	C	D	L (min)	R (min)						
R402005896	37.5	71.3	26.9	216.3	47.8	11.3						
R402005897	37.5	71.3	27	200.3	36.3	–						
R402005898	37.5	71.3	34	190.3	28.3	–						
R402005899	35	68.8	26	175.8	39.3	8.8						
R402005900	37.5	71.3	27.8	170.8	38.3	–						
R402005901	37.5	71.3	32.5	146.8	15.2	–						

Rodless cylinders → Rodless cylinders

Series RTC

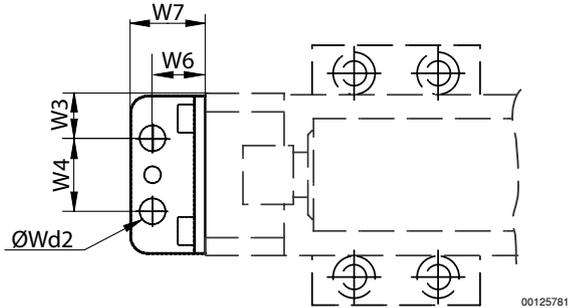
Accessories

End cover mounting, MF1

► for Series RTC-BV, RTC-CG, RTC-HD



00125774



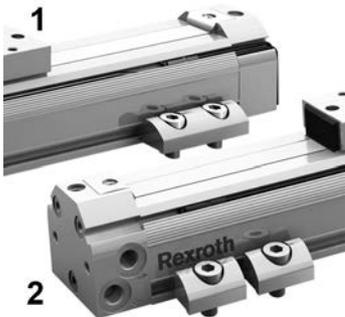
00125781

Part No.	Piston Ø	For series	W3	W4	W6	W7	Wd2	Weight [kg]	Delivery quantity [Piece]
R402002728	16, 25	RTC-BV RTC-CG RTC-HD	8 / 13	18	13,5	19,8	M6	0.2	2
R402002729	32, 40	RTC-BV RTC-CG RTC-HD	16 / 22	26	19	26,8	M8	0.3	2
R402002730	50	RTC-BV RTC-CG RTC-HD	11	70	22	32,7	M12	0.4	2
R402002731	63, 80	RTC-BV RTC-CG RTC-HD	31 / 45	50	22	32,7	M12	0.5	2

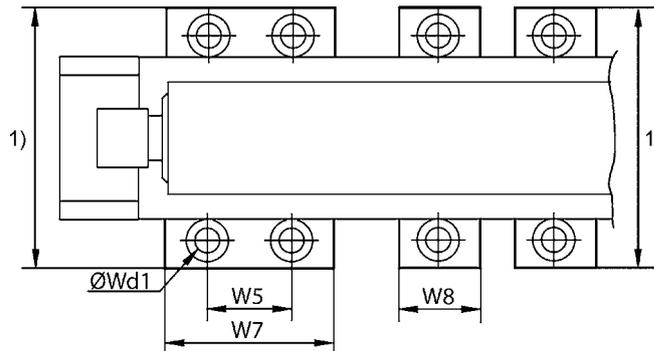
Material: Steel

Foot mounting, M41, M48

► for Series RTC-BV, RTC-CG, RTC-HD



00125775



00125782

1) see data sheet for the respective product variant

Rodless cylinders → Rodless cylinders

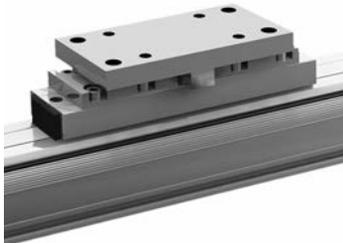
Series RTC
Accessories

Part No.	Piston Ø	For series	Wd1	W5	W7	W8	Weight [kg]	Fig.	Delivery quantity [Piece]
R402003401	16, 25	RTC-BV RTC-CG RTC-HD	6,8	30	60	-	0.05	Fig. 1	2
R402003402	32, 40	RTC-BV RTC-CG RTC-HD	8,8	30	60	-	0.07	Fig. 1	2
R402003403	50, 63, 80	RTC-BV RTC-CG RTC-HD	13	40	80	-	0.2	Fig. 1	2
R402003404	16, 25	RTC-BV RTC-CG RTC-HD	6,8	-	-	30	0.03	Fig. 2	4
R402003405	32, 40	RTC-BV RTC-CG RTC-HD	8,8	-	-	30	0.04	Fig. 2	4
R402005912	50, 63, 80	RTC-BV RTC-CG RTC-HD	13	-	-	40	0.04	Fig. 2	4

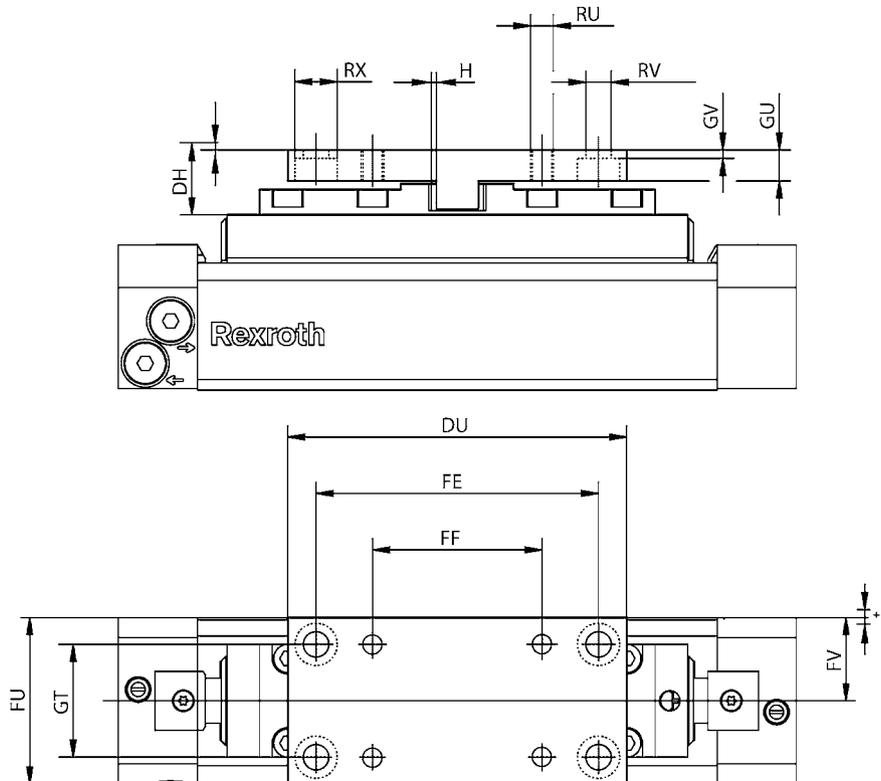
Fig. 1 M41
Fig. 2 M48
Material: Aluminum

Compensating coupling, S44

► for Series RTC-BV



00125768



00125839

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Part No.	Piston Ø	For series	DH	DU	FU	FV	FE	FF	GT	GU	GV
R402002403	16, 25	RTC-BV	17,5–20	95	34	17 ±8	80	60	20	9	3
R402002404	32, 40	RTC-BV	23–27	120	59	29,5 ±14	100	60	40	11	3
R402002405	50, 63, 80	RTC-BV	30,5–35	150	90	45 ±24	120	80	60	15	5

Part No.	Piston Ø	H	RU	RV	RX	Weight [kg]					
R402002403	16, 25	0,15–0,4	M6	6.6	11	0.1					
R402002404	32, 40	0,15–0,4	M8	9	15	0.3					
R402002405	50, 63, 80	0,15–0,4	M10	11	15	0.8					

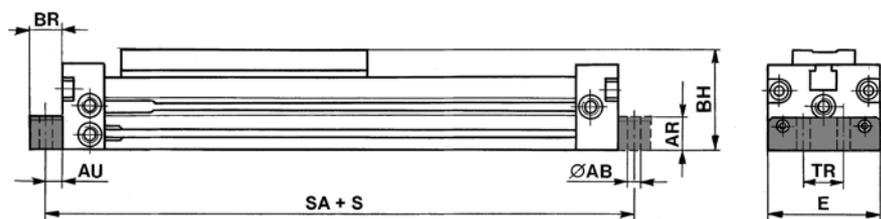
Material: Aluminum

End cover mounting, M40

► for Series RTC-SB



P277_007



D277_004

S = stroke
Delivered in pairs

Part No.	For series	Ø	Ø AB	AR	AU	BH	BR	E	SA	TR		
2771016000	RTC-SB	16	5,5	22	6	44,3	15	44,3	199	18		
2771025000	RTC-SB	25	9	25	11	54,8	25	58	237	26		
2771032000	RTC-SB	32	9	25	11	65,1	25	72	262	26		

Adjustable stop

► for RTC-SB



P277_006

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Part No.	For series	Ø	E 1)	L 2)	S 3)	Material	Weight [kg]		
2772016000	RTC-SB	16	±5	79	M12x1	Aluminum black anodized	0.41		
2772025000	RTC-SB	25	±5	79	M12x1	Aluminum black anodized	0.59		
2772032000	RTC-SB	32	±10	127	M14x1,5	Aluminum black anodized	0.94		

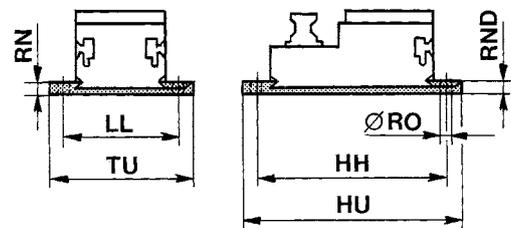
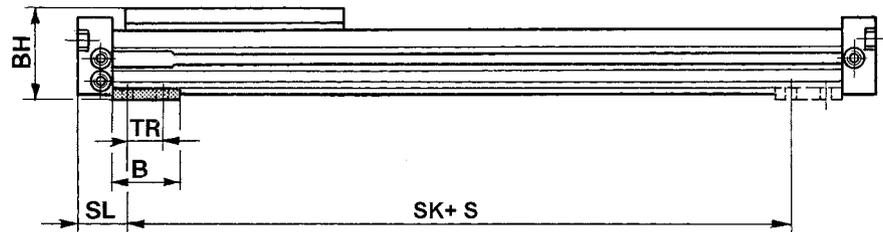
- 1) recommended setting
 2) extra length per stop
 3) Shock absorber size
 (without shock absorber) for slide bearing guide version

Foot mounting, M41

► for Series RTC-SB 16



P277_008



D277_006

S = stroke

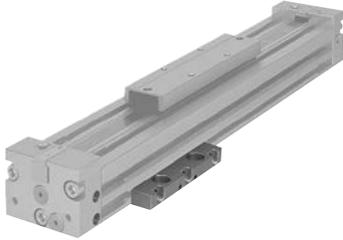
Part No.	For series	Ø	B	BH	HH	HU	LL	RN	Ø RO	SK	SL	TR
2771116000	RTC-SB 16	16	35	47,3	-	-	58,2	6	5,8	96	36,5	18
Part No.	For series	TU										
2771116000	RTC-SB 16	73										

Rodless cylinders → Rodless cylinders

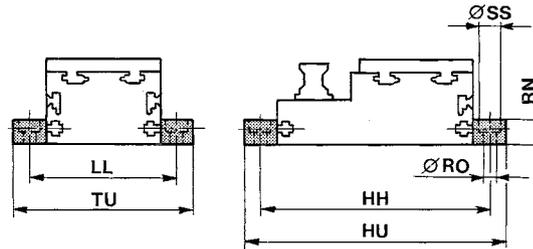
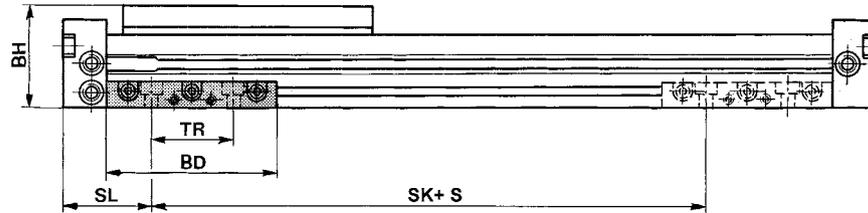
Series RTC
 Accessories

Foot mounting, M41

▶ for Series RTC-SB 25-80



P277_008



D277_005

 S = stroke
 Delivered in pairs

Part No.	For series	Ø	BD	BH	HH	HU	LL	RN	Ø RO	SK	SL	Ø SS	TR	TU
2771125000	RTC-SB 25-80	25 / 32 / 40 / 50	106	54,8 / 65,1 / 75,1 / 82,1	130 / 150 / 176 / 192	150 / 170 / 196 / 212	79 / 95 / 108 / 124	15	9	53 / 78 / 101 / 132	56	15	50	99 / 115 / 128 / 144

Rodless cylinders → Rodless cylinders

Series RTC

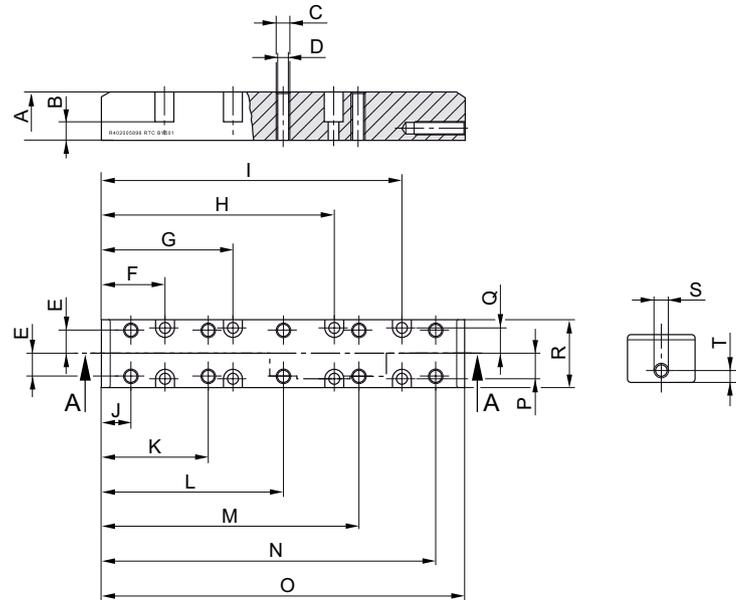
Accessories

Slide attachment

► for RTC-BV



19814



16463

Part No.	For series	Ø	A	B	ØC	D	E	F	G	H	I
R402005909	RTC-BV	25	20	14.5	6.5	M6	8	28.5	58.5	98.5	128.5
R402005910	RTC-BV	32	20	10.5	8.5	M8	13.5	30.5	60.5	120.5	150.5
R402005903	RTC-BV	40	20	10.5	8.5	M8	13.5	42	72	132	162
R402005911	RTC-BV	50	28	10.5	8.5	M8	13.5	37.5	77.5	137.5	177.5

Part No.	J	K	L	M	N	O	P	Q	R	S
R402005909	18.5	40.4	78.5	116.6	138.5	157	10	10	26	M6
R402005910	17.5	45.5	90.5	135.5	163.5	181	15	15	40	M6
R402005903	27	57	102	147	177	204	15	15	40	M6
R402005911	17.5	63.1	107.5	152	197.5	215	15	15	40	M8

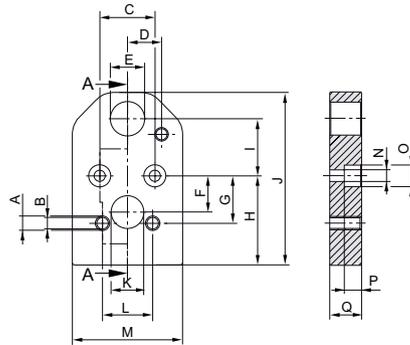
Part No.	T	Material	Weight [kg]							
R402005909	6	Steel galvanized	0.5							
R402005910	6	Steel galvanized	0.5							
R402005903	6	Steel galvanized	0.5							
R402005911	7	Steel galvanized	0.5							

Rodless cylinders → Rodless cylinders

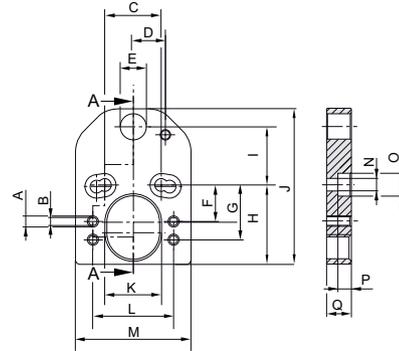
Series RTC
Accessories
Bracket
► for RTC-BV


19815

Ø25 / 50



Ø32 - 40



16464

Part No.	For series	Ø	ØA	B	C	D	E	F	G	H	I
R402005906	RTC-BV	25	5.5	M5	21	13	MF14x1.5	13.6	17.8	33.6	21.5
R402005907	RTC-BV	32 - 40	5.5	M5	28	16	MF14x1.5	17.7	26.7	38.7	28.4
R402005908	RTC-BV	50	8.5	M8	52	18	MF20x1.5	21	32.6	53.1	30.7

Part No.	J	ØK	L	M	ØN	ØO	P	Q	Material	Weight [kg]
R402005906	65	12	19	42	4.3	8 H14	6.5	12	Steel galvanized	0.5
R402005907	76	28	40	57	6.4	11 H14	6.5	12	Steel galvanized	0.5
R402005908	100	28	40	90	8.4	15 H14	8.5	12	Steel galvanized	0.5

Rodless cylinders → Rodless cylinders

Series RTC
Accessories
Easy–2–Combine, Connection kit
► For combination: RTC-CG / MSC

Materials:

Centering sleeve

Stainless steel

Screws 1)

Steel, galvanized

1) ISO 4762:2004

Easy–2–Combine basic	Easy–2–Combine add-on part	Easy–2–Combine kit	Weight [kg]	Part No.
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, GPC-ST-12	MSC-08	CK2-LI-01	0.01	R412004687
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, GPC-ST-12, GPC-ST-20, RTC-HD 16, RTC-HD 25	MSC-12	CK2-LI-02	0.02	R412004688
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, RTC-HD 16, RTC-HD 25	MSC-16	CK2-LI-06	0.02	R412008670
CKK/CKR-20-145, CKP-32, RTC-HD 32, RTC-HD 40	MSC-20	CK2-LI-07	0.03	R412008671
	MSC-25	CK2-LI-08	0.04	R412008672

A) product 1, B) product 2, C) screws, D) centering sleeves

A	B	C 1)	D
MSC-12	RTC-CG 16	2 x M5x22	2 x Ø 9
MSC-12	RTC-CG 25	2 x M5x25	2 x Ø 9
MSC-16	RTC-CG 16	2 x M5x30	2 x Ø 9
MSC-16	RTC-CG 25	2 x M5x30	2 x Ø 9
MSC-20	RTC-CG 32	2 x M6x32	2 x Ø 12
MSC-20	RTC-CG 40	2 x M6x35	2 x Ø 12
MSC-25	RTC-CG 32	2 x M6x28	2 x Ø 12
MSC-25	RTC-CG 40	2 x M6x30	2 x Ø 12

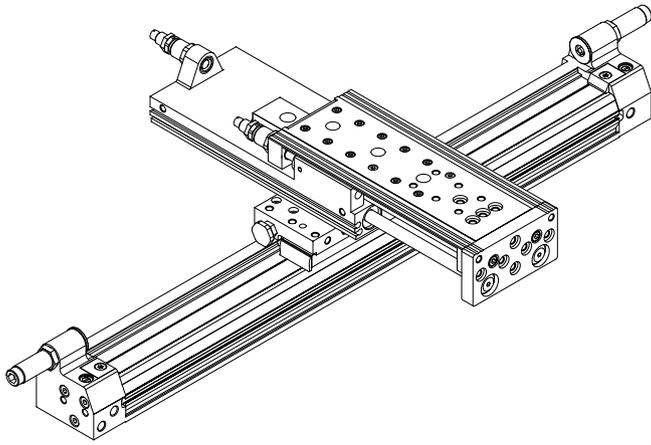
1) tightening torque M5 = 6,0 Nm ± 10%; M6 = 10 Nm ± 10%

Rodless cylinders → Rodless cylinders

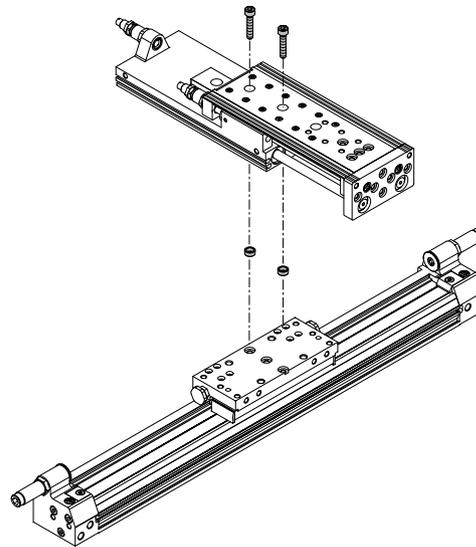
Series RTC

Accessories

slide mounting: transverse



00129817



00129818

Easy-2-Combine, Connection kit

► For combination: RTC-CG / ZSC

Materials:

centering pins 2)
Centering sleeve
Subbase
Screws 1)
T-groove nut

Steel, hardened
Stainless steel
Aluminum, anodized
Steel, galvanized
Stainless steel; Steel, galvanized

1) ISO 4762:2004

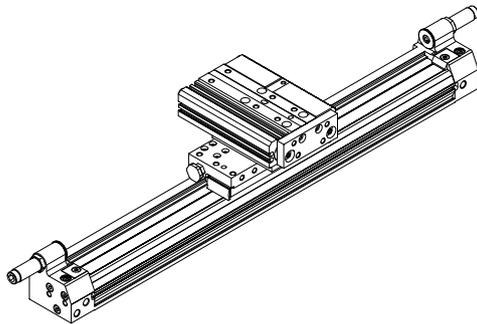
2) ISO 2338:1997

Easy-2-Combine basic	Easy-2-Combine add-on part	Easy-2-Combine kit	Weight [kg]	Part No.
GPC-ST-12, GPC-ST-20, GSU-16, MSC-16, MSC-20, RTC-CG 16	GPC-E-16, ZSC-16	CK1-LI-14	0.17	R412004661
GSU-25, MSC-25, RTC-CG 32, RTC-HD 32, RTC-HD 40	GPC-E-20, ZSC-20	CK1-LI-15	0.26	R412004662
GSU-25, MSC-25, RTC-CG 32	ZSC-25	CK1-LI-16	0.3	R412004663

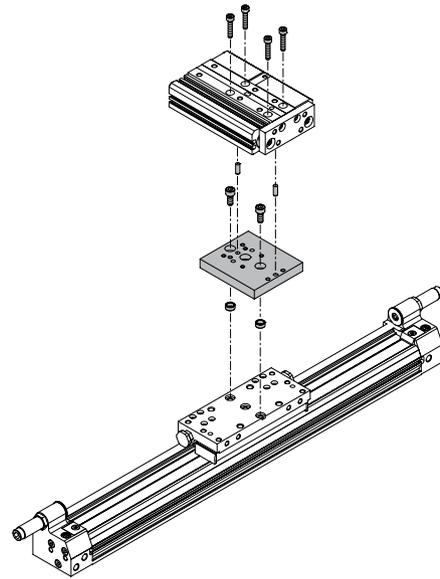
Rodless cylinders → Rodless cylinders

Series RTC
Accessories

slide mounting: transverse



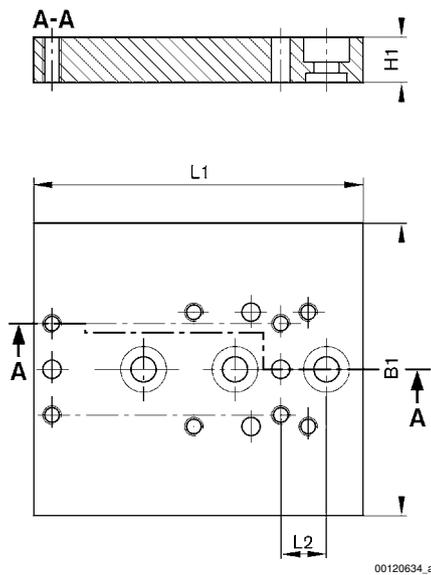
00129819



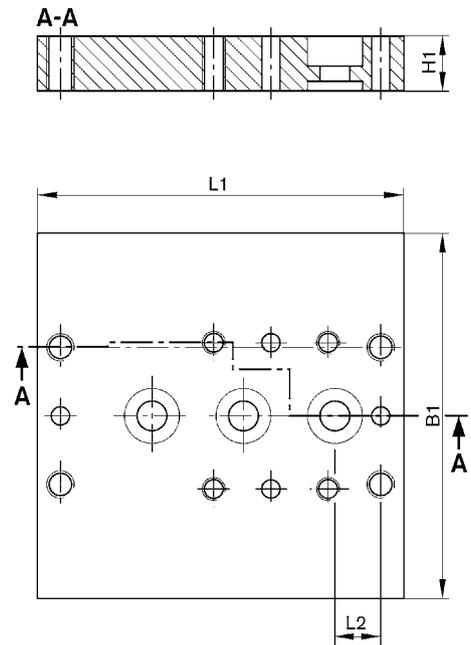
00129820

CK1-LI-14 / -15

CK1-LI-16



00120634_a



00123273

Easy-2-Combine kit	B1	H1	L1	L2			
CK1-LI-14	64	10	72	9			

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2014-02-11, © Rexroth Pneumatics GmbH, subject to change

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Easy-2-Combine kit	B1	H1	L1	L2				
CK1-LI-15	76	12	77.5	8				
CK1-LI-16	80	12	80	8				

Scope of delivery: A) connection plate B) screws C) centering sleeves D) centering pins

Easy-2-Combine kit	A	B 1)	C	D
CK1-LI-14	1 x	4 x M4x20; 4 x M4x35; 2 x M5x10; 2 x M5x12; 2 x M5x14	6 x Ø 9	2 x 4 m6x12
CK1-LI-15	1 x	4 x M5x20; 4 x M5x40; 2 x M6x14; 4 x M6x16	4 x Ø 12; 2 x Ø 12-9	2 x 4 m6x12
CK1-LI-16	1 x	4 x M5x45; 4 x M6x16; 2 x M6x14; 4 x M6x25	6 x Ø 12	2 x 4 m6x12

Easy-2-Combine kit	A	B 1)	C	D
CK1-LI-14	1 x	4 x M4x20; 4 x M4x35; 2 x M5x10; 2 x M5x12; 2 x M5x14	6 x Ø 9	2 x 4 m6x12
CK1-LI-15	1 x	4 x M5x20; 4 x M5x40; 2 x M6x14; 4 x M6x16	4 x Ø 12; 2 x Ø 12-9	2 x 4 m6x12
CK1-LI-16	1 x	4 x M5x45; 4 x M6x16; 2 x M6x14; 4 x M6x25	6 x Ø 12	2 x 4 m6x12

1) tightening torque M4 = 3,5 Nm ± 10%; M5 = 6,0 Nm ± 10%; M6 = 10 Nm ± 10%

Easy-2-Combine, Connection kit

► For combination: RTC-HD / MSC

Materials:

Centering sleeve

Screws 1)

T-groove nut

Stainless steel

Steel, galvanized

Stainless steel; Steel, galvanized

1) ISO 4762:2004

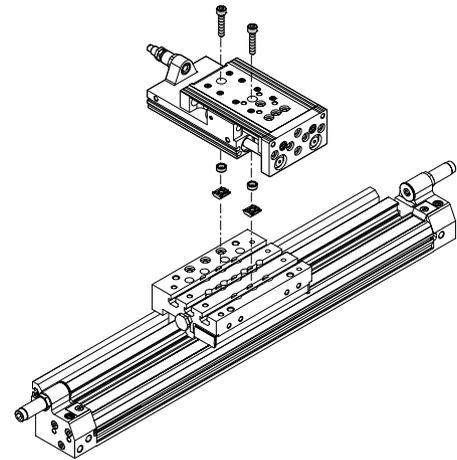
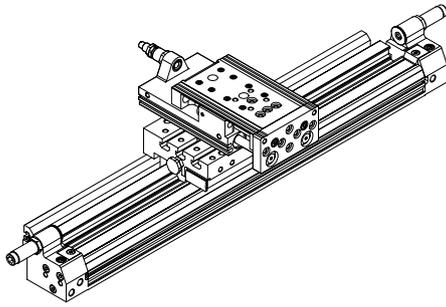
Easy-2-Combine basic	Easy-2-Combine add-on part	Easy-2-Combine kit	Weight [kg]	Part No.
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, GPC-ST-12	MSC-08	CK2-LI-01	0.01	R412004687
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, GPC-ST-12, GPC-ST-20, RTC-HD 16, RTC-HD 25	MSC-12	CK2-LI-02	0.02	R412004688
CKK/CKR-12-90, CKK/CKR-15-110, CKP-16, CKP-25, RTC-HD 16, RTC-HD 25	MSC-16	CK2-LI-06	0.02	R412008670
CKK/CKR-20-145, CKP-32, RTC-HD 32, RTC-HD 40	MSC-20	CK2-LI-07	0.03	R412008671
	MSC-25	CK2-LI-08	0.04	R412008672

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

slide mounting: transverse



00129823

00129824

Scope of delivery: A) screws B) centering sleeves C) sliding blocks

Easy-2-Combine kit	A 1)	B	C						
CK2-LI-01	2 x M4x18	2 x Ø 9-7	2 x N6 / M4						
CK2-LI-02	2 x M5x20	2 x Ø 9	2 x N6 / M5						
CK2-LI-06	2 x M5x26,5	2 x Ø 9	2 x N6 / M5						
CK2-LI-07	2 x M6x32	2 x Ø 12	2 x N8 / M6						
CK2-LI-08	2 x M6x28	2 x Ø 12	2 x N8 / M6						

1) tightening torque M4 = 3,5 Nm ± 10%; M5 = 6,0 Nm ± 10%; M6 = 10 Nm ± 10%

Easy-2-Combine, Connection kit

► For combination: RTC-HD / GPC-E

Materials:

Centering sleeve

Subbase

Screws 1)

T-groove nut

Stainless steel

Aluminum, anodized

Steel, galvanized

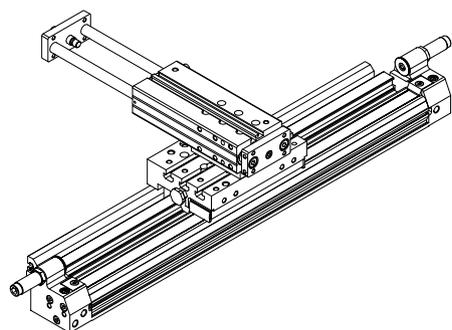
Stainless steel; Steel, galvanized

1) ISO 4762:2004

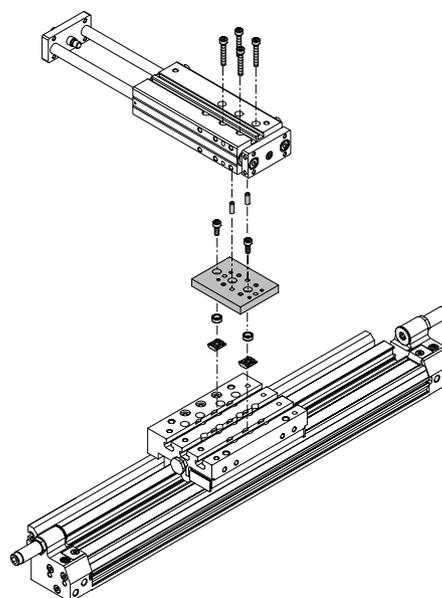
Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Easy-2-Combine basic	Easy-2-Combine add-on part	Easy-2-Combine kit	Weight [kg]	Part No.
GPC-ST-12, GPC-ST-20, MSC-12, RTC-HD 16, RTC- HD 25	GPC-E-12, ZSC-10	CK1-LI-13	0.1	R412004665
GPC-ST-12, GPC-ST-20, GSU-16, MSC-16, MSC-20, RTC-CG 16	GPC-E-16, ZSC-16	CK1-LI-14	0.17	R412004661
GSU-25, MSC-25, RTC-CG 32, RTC-HD 32, RTC-HD 40	GPC-E-20, ZSC-20	CK1-LI-15	0.26	R412004662

slide mounting: transverse


00129821

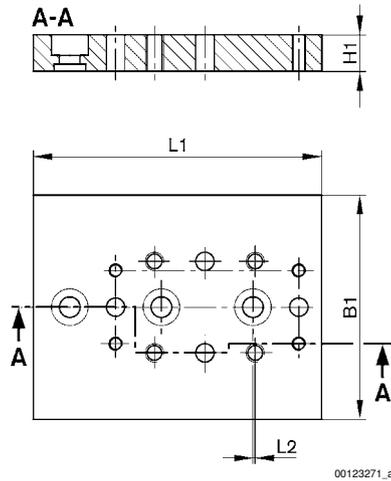


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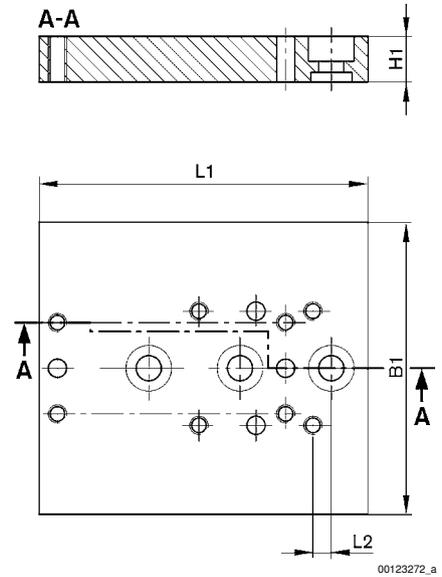
Rodless cylinders → Rodless cylinders

Series RTC
Accessories

CK1-LI-13



CK1-LI-14 / -15



Easy-2-Combine kit	B1	H1	L1	L2				
CK1-LI-13	49	8	63	0.5				
CK1-LI-14	64	10	72	4				
CK1-LI-15	76	12	77.5	1.5				

Scope of delivery: A) connection plate B) screws C) centering sleeves D) centering pins E) sliding blocks

Easy-2-Combine kit	A	B 1)	C	D
CK1-LI-13	1 x	4 x M3x16; 4 x M4x10; 4 x M4x30	2 x Ø 7; 2 x Ø 9	2 x 4 m6x12
CK1-LI-14	1 x	4 x M4x20; 4 x M4x35; 2 x M5x10; 2 x M5x12; 2 x M5x14	6 x Ø 9	2 x 4 m6x12
CK1-LI-15	1 x	4 x M5x20; 4 x M5x40; 2 x M6x14; 4 x M6x16	4 x Ø 12; 2 x Ø 12-9	2 x 4 m6x12

Easy-2-Combine kit	E							
CK1-LI-13	2 x N6 / M4							
CK1-LI-14	2 x N6 / M5							
CK1-LI-15	2 x N8 / M6							

1) tightening torque M3 = 2,2 Nm ± 10%; M4 = 3,5 Nm ± 10%; M5 = 6,0 Nm ± 10%; M6 = 10 Nm ± 10%

Easy-2-Combine, Connection kit

► For combination: RTC-CG / RCM / RTC-CG / SGN / RTC-CG / GSP / RTC-CG / LS04

Materials:
centering pins
Subbase
Screws

Stainless steel
Aluminum
Steel, galvanized

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

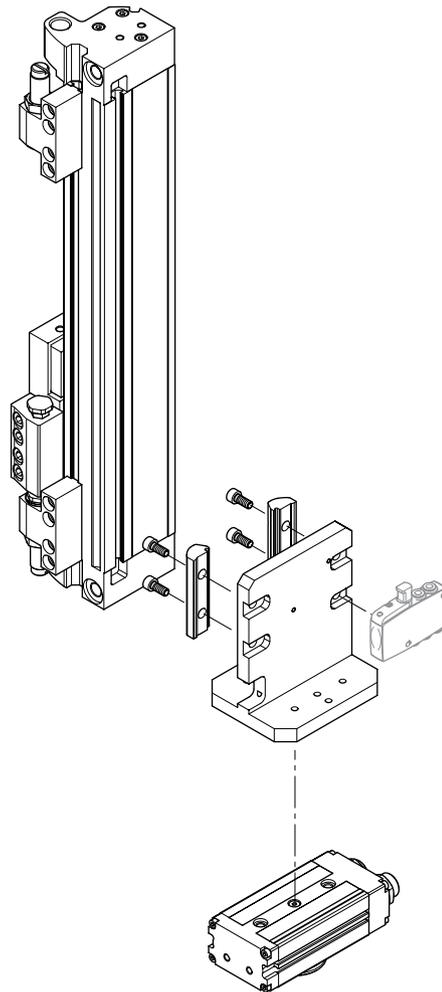
Easy-2-Combine basic	Easy-2-Combine add-on part	Note	Weight [kg]	Part No.
RTC-CG 25	RCM and LS04 1)	Fig. 1	0.4	R402003946
RTC-CG 32	RCM and LS04 1)	Fig. 1	0.5	R402003947
RTC-CG 2)	SGN	Fig. 3	0.2	R402003948
	SGN	Fig. 3	0.25	R402003949
	SGN	Fig. 3	0.25	R402003950
	GSP-A-16, 25, 32, GSP-R-16, 25, 32, GSP-P-16, 20, 25	Fig. 2	0.2	R402003951
	GSP-Z-16, GSP-Z-32	Fig. 2	0.2	R402003952
	GSP-A-40, GSP-R-40, GSP-P-40	Fig. 3	0.2	R402003954

1) Optional assembly of LS04 valves.

2) Additional T transition plate for RTC series Ø25 or Ø32 required.

Scope of delivery: incl. mounting screws and centering rings

Fig.1 Combination of RTC series with RCM series via a T transition plate

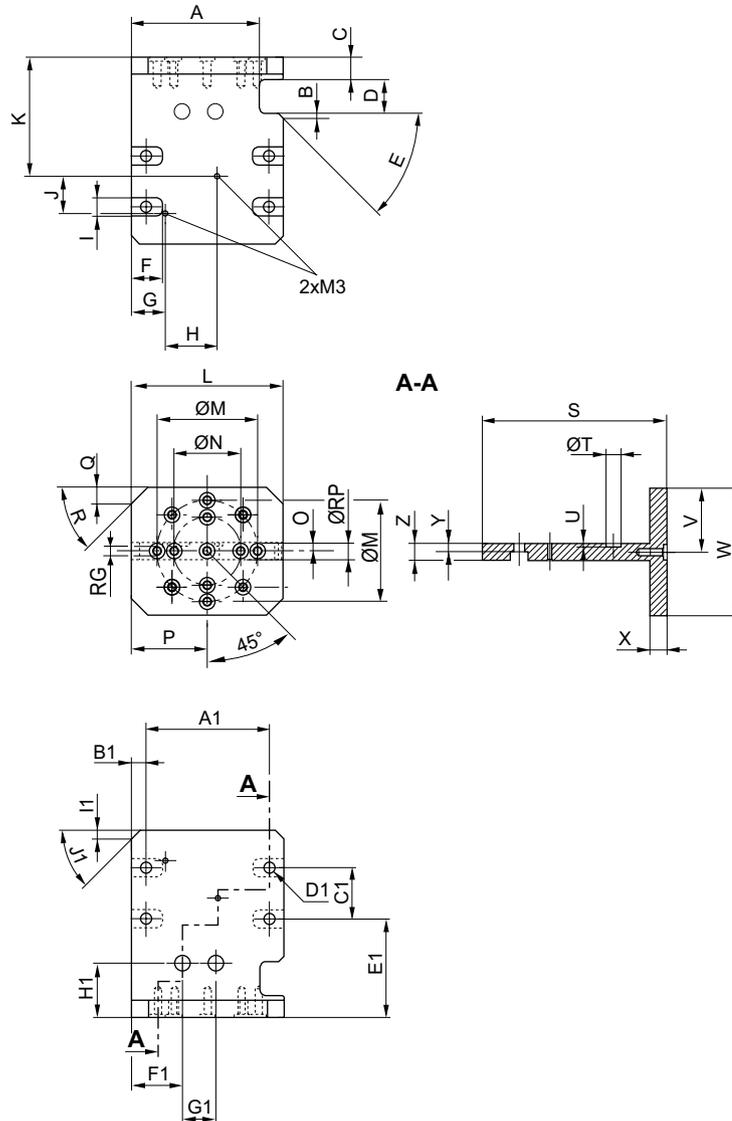


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Rodless cylinders → Rodless cylinders

Series RTC
Accessories

T transition plate dimensions



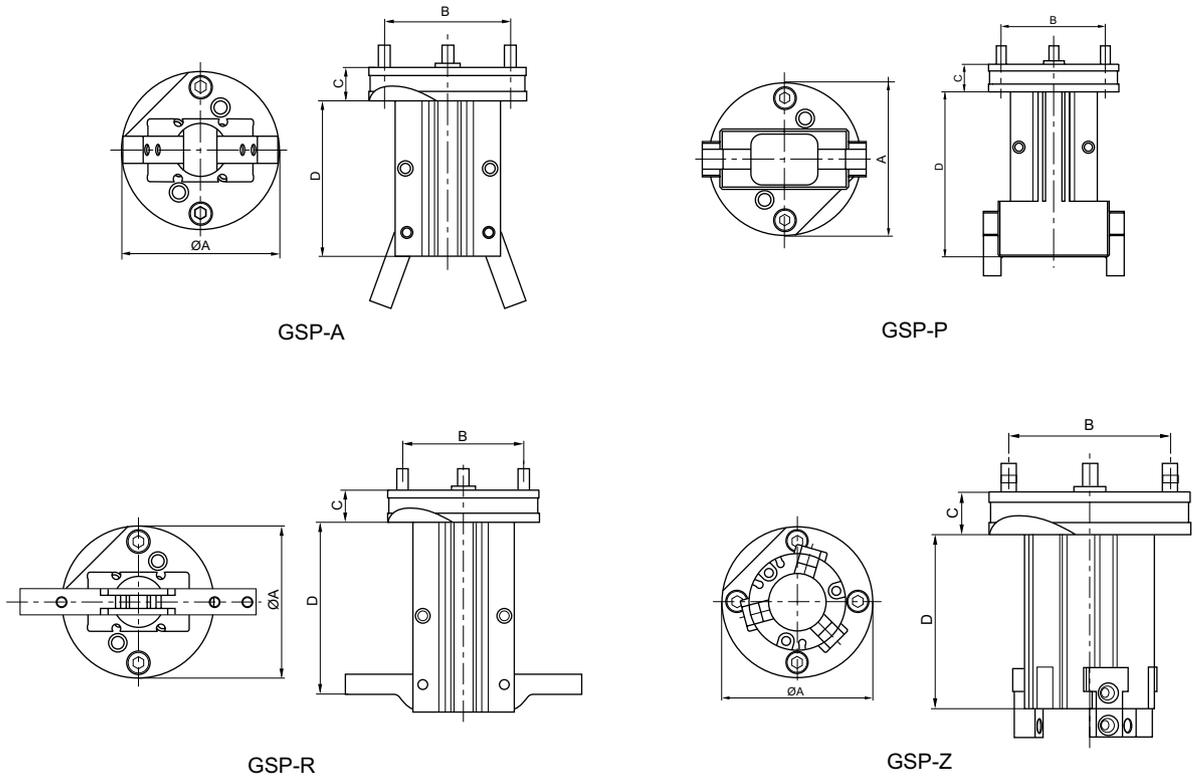
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	A	A1	B	B1	C	C1	D	ØD1	E	E1	F	F1
R402003946	76.7	2x 74	3	2x 8,6	13	2x 30	20	6	45°	58	4x 18,6	30.35
R402003947	92	2x 89,9	3	2x 10,5	16	2x 30	20	9	45°	58	4x 22	36.25
	G	G1	H	H1	I	I1	J	J1	K	L	ØM	ØN
R402003946	20.35	20	31.1	32	4x 10,7	2x 5	22	45°	70	91.2	60	40
R402003947	29.75	20	31.1	32	4x 13,7	2x 5	22	45°	70	110	60	40
	O	P	Q	R	RG	ØRP F7	S	ØT	U	V	W	X
R402003946	5	45.6	4x 10	45°	M5	9	110	9	2x 2,1	32.5	75	10
R402003947	5	55	4x 10	45°	M6	12	110	12	2x 2,1	32.5	75	10
	Y	Z										
R402003946	4x 5	10										
R402003947	4x 4	10										

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Gripper mounting dimensions

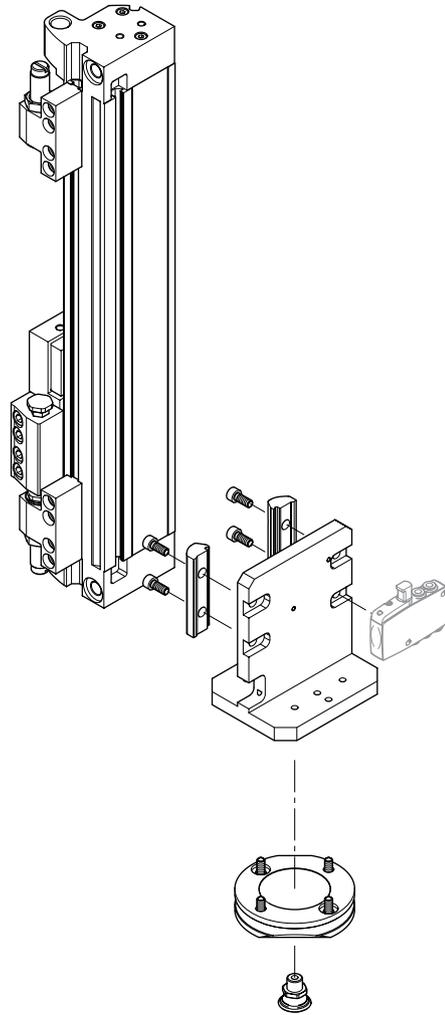


00137884_E2C

Ø	ØA	B	C								
16	75	60	16								
25	75	60	16								
40	75	60	16								

	D										
GSP-A-16	56										
GSP-A-20	74										
GSP-A-25	74										
GSP-A-40	106										
GSP-P-16	68										
GSP-P-20	79										
GSP-P-25	95										
GSP-P-40	131										
GSP-R-16	71.1										
GSP-R-20	94.5										
GSP-R-25	94.5										
GSP-R-40	126										
GSP-Z-16	52										
GSP-Z-32	65										

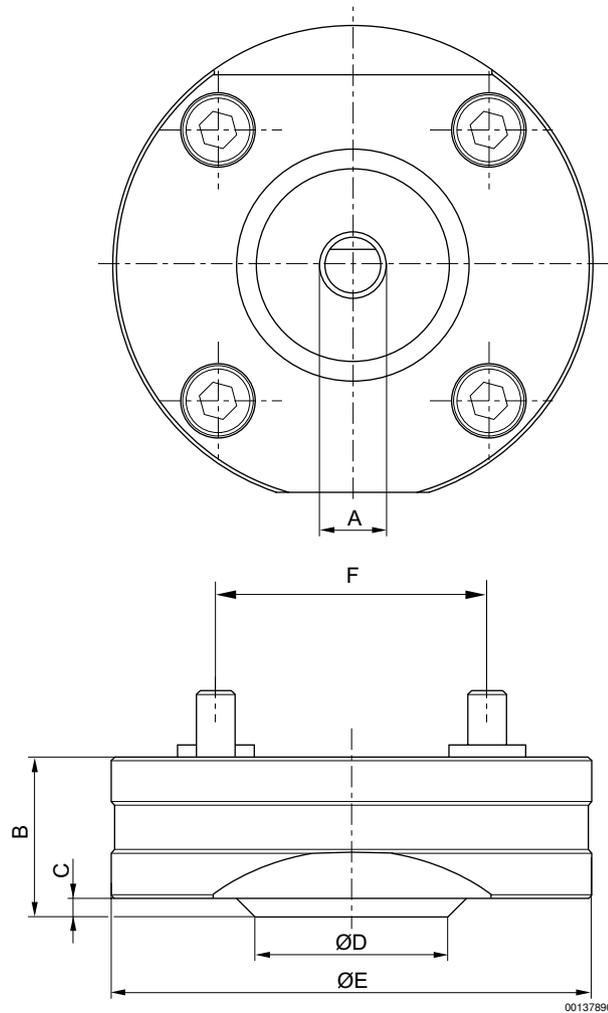
Rodless cylinders → Rodless cylinders

Series RTC
Accessories**Fig. 3 Combination of RTC series with SGN series via a T transition plate and vacuum transition plate**

00137889_e

Rodless cylinders → Rodless cylinders

Series RTC
 Accessories

Vacuum transition plate dimensions


	A	B	C	ØD	ØE	F						
R402003948	M5	20	4	30	75	60						
R402003949	G1/8	25	3	30	75	60						
R402003950	G1/4	30	8	30	75	60						

Easy-2-Combine, Connection kit

▶ For combination: RTC-HD / RTC-CG

 Materials:
 Subbase

Aluminum

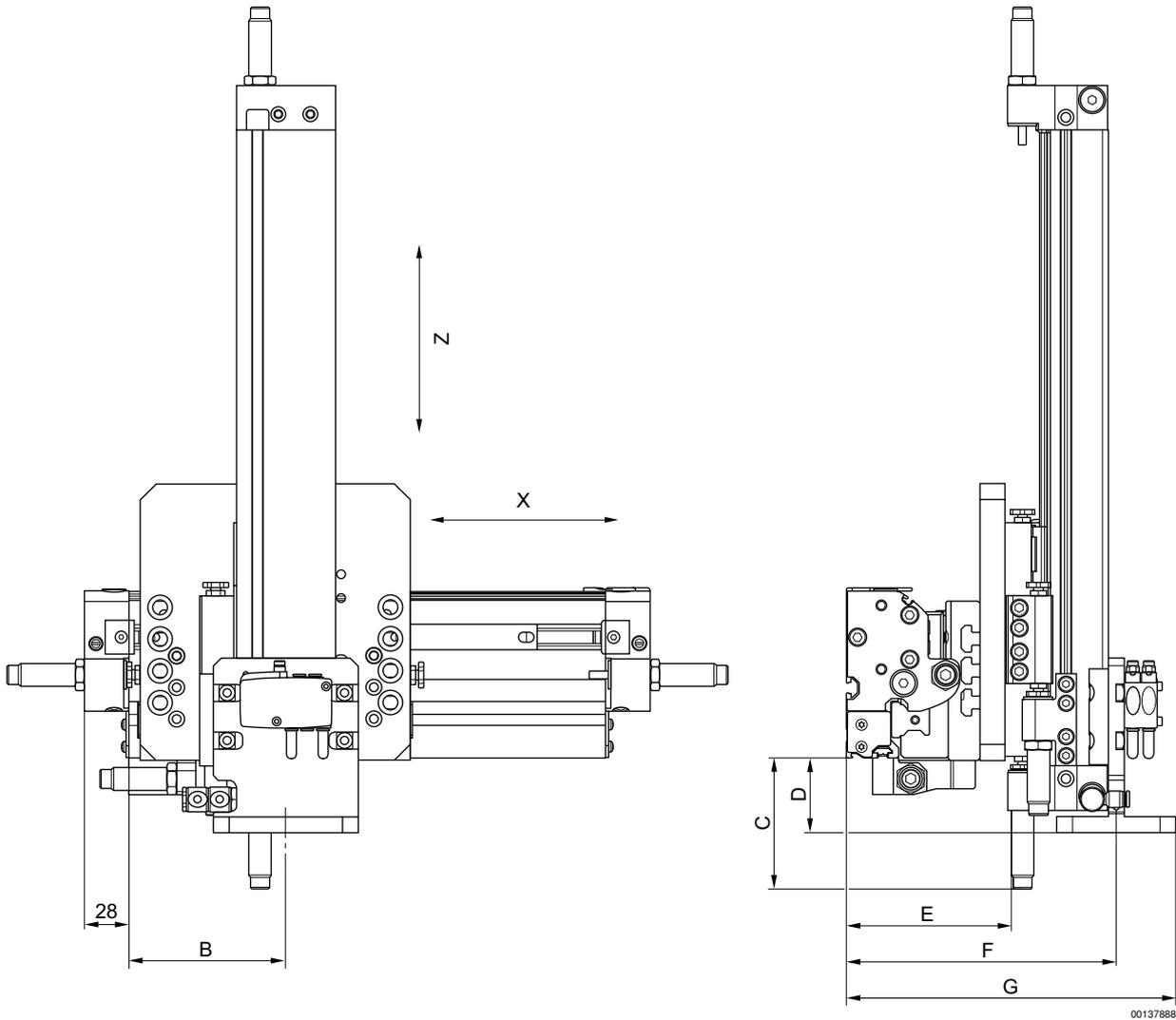
Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Easy-2-Combine basic	Easy-2-Combine add-on part	Weight	Part No.
		[kg]	
RTC-HD 25, RTC-HD 32, RTC-HD 40, RTC-HD 50, RTC-HD 63	RTC-CG 25, RTC-CG 32	1.2	R402003944
Scope of delivery: incl. mounting accessories			

Dimensions



NOTICE:

To avoid overloading the cylinder, please keep the max. velocity which are given below.

X (RTC-HD):

Stroke max.: 4300 mm

Velocity max.: 0,7 m/s (with centre of gravity of complete Z-axis balanced)

Z (RTC-CG):

Stroke max. for CG25: 500 mm

Stroke max. for CG32: 700 mm

Velocity max.: 1,2 m/s (at stroke max.)

Max. weight: 2 kg

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

B	CG-32	CG-25										
HD-63	153.25	145.25										
HD-50	134	126										
HD-40	118.3	110.3										
HD-32	–	98.75										
HD-25	–	–										

C	CG-32	CG-25										
HD-63	86.8	81.3										
HD-50	86.8	81.3										
HD-40	81.3	75.8										
HD-32	–	75.8										
HD-25	–	–										

D	CG-32	CG-25										
HD-63	52.5	52.5										
HD-50	52.5	52.5										
HD-40	47	47										
HD-32	–	47										
HD-25	–	–										

E	CG-32	CG-25										
HD-63	148.9	149.3										
HD-50	138.9	139.3										
HD-40	117.2	117.6										
HD-32	–	103.7										
HD-25	–	–										

F	CG-32	CG-25										
HD-63	223.4	215.4										
HD-50	213.4	205.4										
HD-40	191.7	183.7										
HD-32	–	169.8										
HD-25	–	–										

G	CG-32	CG-25										
HD-63	260.9	252.9										
HD-50	250.9	242.9										
HD-40	229.2	221.2										
HD-32	–	207.3										
HD-25	–	–										

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Centering rings



00112657

Fig. 1

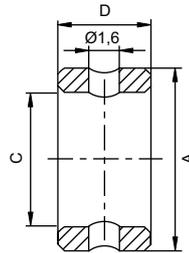
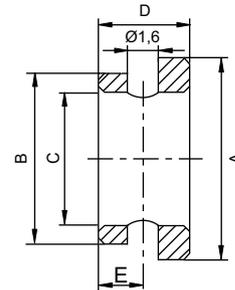


Fig. 2



00119489_a

Part No.	A k6	B k6	C ±0,1	D -0,2	E +0,2	Material	Delivery quantity [Piece]	Fig.		
R412000669	5	-	3,4	3	-	Stainless steel	6	Fig. 1		
R412000668	7	-	5,5	3	-	Stainless steel	6	Fig. 1		
R412000670	9	-	6,6	4	-	Stainless steel	6	Fig. 1		
R412000671	12	-	9,0	4	-	Stainless steel	6	Fig. 1		
R402003731	16	-	11	6	-	Stainless steel	6	Fig. 1		
R412004030	7	5	3,4	3	1,5	Stainless steel	6	Fig. 2		
R412004032	9	5	3,4	3,5	1,5	Stainless steel	6	Fig. 2		
R412004033	9	7	5,5	3,5	1,5	Stainless steel	6	Fig. 2		
R412004034	12	9	6,6	4,0	2	Stainless steel	6	Fig. 2		
R402003736	16	12	9	5	2	Stainless steel	6	Fig. 2		

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Sensor, Series ST4

► 4 mm groove ► with cable ► without wire end ferrule, tin-plated



21304

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-30 °C / +80 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Switching logic	NO (make contact)
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Mounting screw	Combination: slotted and hexagon socket
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

Technical Remarks

- The max. switching capacity must not be exceeded.

	Type of contact	Cable length	DC operating voltage min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Switching capacity	Part No.
		[m]	[V]	[V]	[A]	[A]		
	Reed	3 5	5 / 30	I [*] Rs	0,13	0,13	3 W / 3 VA	R412019488 R412019489
	electronic PNP	3 5	10 / 30	≤ 2,5	0.1	-	-	R412019680 R412019681
	electronic NPN	3 5	10 / 30	≤ 2,5	0.1	-	-	R412019684 R412019685

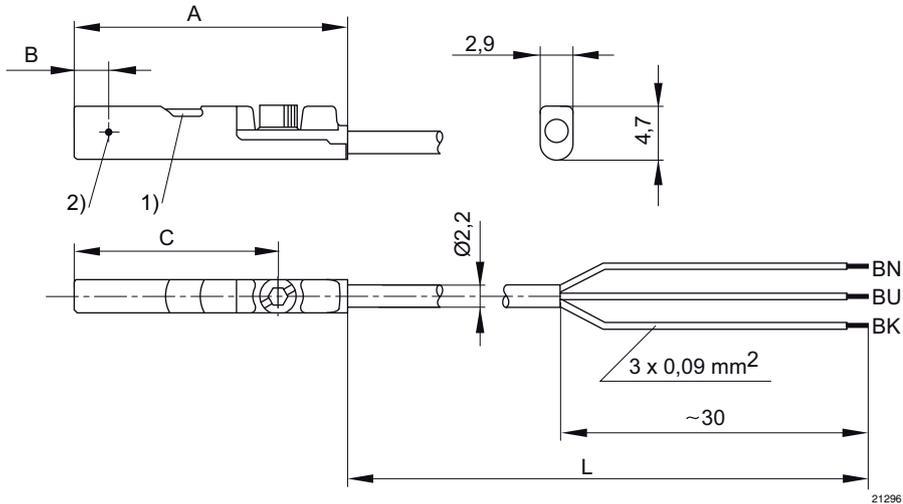
interfaces: without wire end ferrule, tin-plated
short circuit resistant; Protected against polarity reversal

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Dimensions



1) LED 2) Switching point
 L = cable length
 BN = brown, BK = black, BU = blue

Part No.	A	B	C									
R412019488	26.3	6.3	20.3									
R412019489	26.3	6.3	20.3									
R412019680	23.7	2.8	17.7									
R412019681	23.7	2.8	17.7									
R412019684	23.7	2.8	17.7									
R412019685	23.7	2.8	17.7									

Sensor, Series ST4

► 4 mm groove ► with cable ► Plug, M8, 3-pin



Certificates
 Ambient temperature min./max.
 Protection class
 Switching point precision [mm]
 Switching logic
 Display
 LED status display
 Vibration resistance
 Shock resistance
 Mounting screw

UL (Underwriters Laboratories)
 -30 °C / +80 °C
 IP 65, IP 67
 ±0,1
 NO (make contact)
 LED
 Yellow
 10 - 55 Hz, 1 mm
 30 g / 11 ms
 Combination: slotted and hexagon socket

Materials:
 Housing
 Cable sheath

Polyamide, fiber-glass reinforced
 Polyurethane

Rodless cylinders → Rodless cylinders

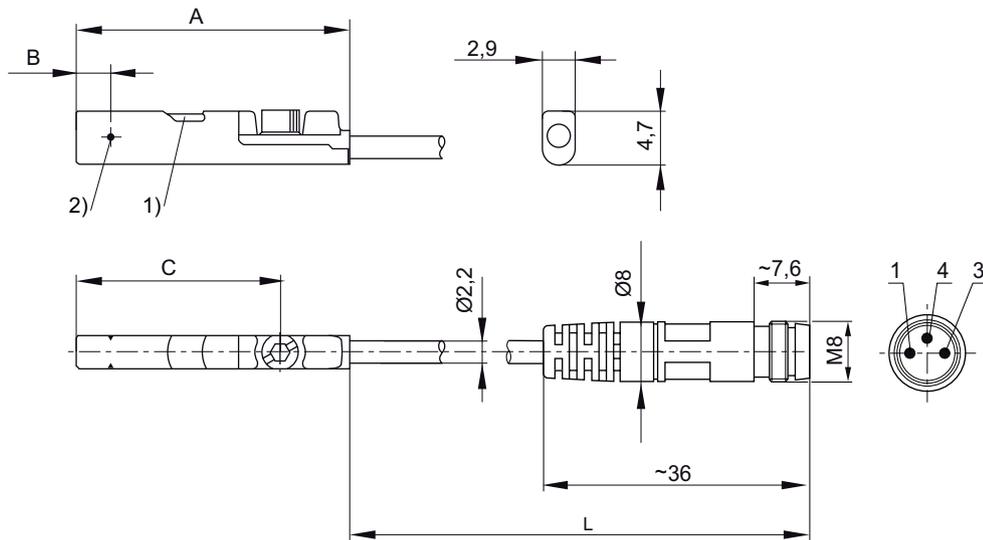
Series RTC
Accessories

Technical Remarks
 ■ The max. switching capacity must not be exceeded.

	Type of contact	Cable length	DC operating voltage min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Switching capacity	Part No.
		[m]	[V]	[V]	[A]	[A]		
	Reed	0.3	5 / 30	I*Rs	0,13	0,13	3 W / 3 VA	R412019682
	electronic PNP	0.3	10 / 30	≤ 2,5	0.1	-	-	R412019683
	electronic NPN	0.3	10 / 30	≤ 2,5	0.1	-	-	R412019694

interfaces: Plug; M8; 3-pin
 short circuit resistant; Protected against polarity reversal

Dimensions



21297

1) LED 2) Switching point
 L = cable length
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Part No.	A	B	C									
R412019682	26.3	6.3	20.3									
R412019683	23.7	2.8	17.7									
R412019694	23.7	2.8	17.7									

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Sensor, Series ST4

▶ 4 mm groove ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw



21306

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-30 °C / +80 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Switching logic	NO (make contact)
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Mounting screw	Combination: slotted and hexagon socket
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

Technical Remarks

- The max. switching capacity must not be exceeded.

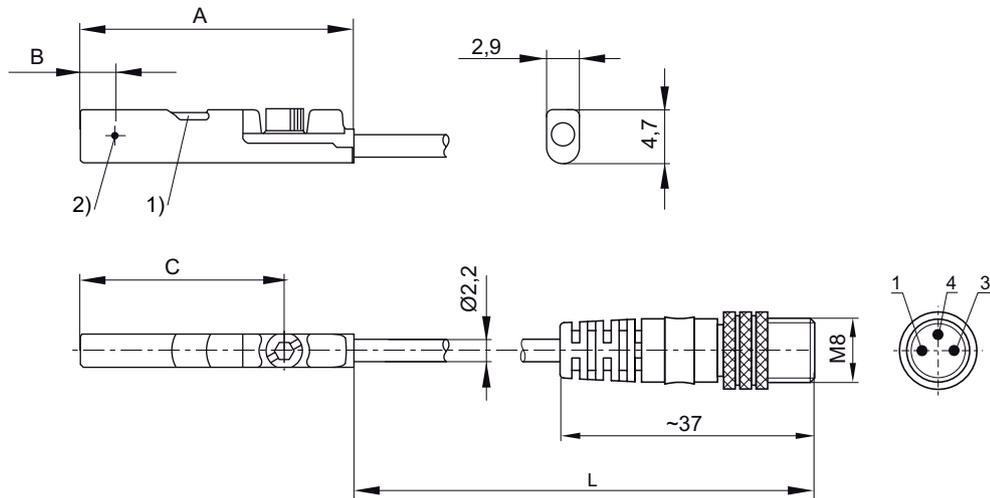
	Type of contact	Cable length	DC operating voltage min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Switching capacity	Part No.
		[m]	[V]	[V]	[A]	[A]		
	Reed	0.3	5 / 30	I*Rs	0,13	0,13	3 W / 3 VA	R412019490
	electronic PNP	0.3	10 / 30	≤ 2,5	0.1	-	-	R412019493
	Reed	0.5	5 / 30	I*Rs	0,13	0,13	3 W / 3 VA	R412019686
	electronic PNP	0.5	10 / 30	≤ 2,5	0.1	-	-	R412019687

interfaces: Plug; M8; 3-pin; with knurled screw
short circuit resistant; Protected against polarity reversal

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Dimensions



21298

1) LED 2) Switching point
L = cable length
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Part No.	A	B	C									
R412019490	26.3	6.3	20.3									
R412019493	23.7	2.8	17.7									
R412019686	26.3	6.3	20.3									
R412019687	23.7	2.8	17.7									

Sensor, Series ST4

► 4 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw



21306

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-30 °C / +80 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Switching logic	NO (make contact)
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Mounting screw	Combination: slotted and hexagon socket
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

Technical Remarks

- The max. switching capacity must not be exceeded.

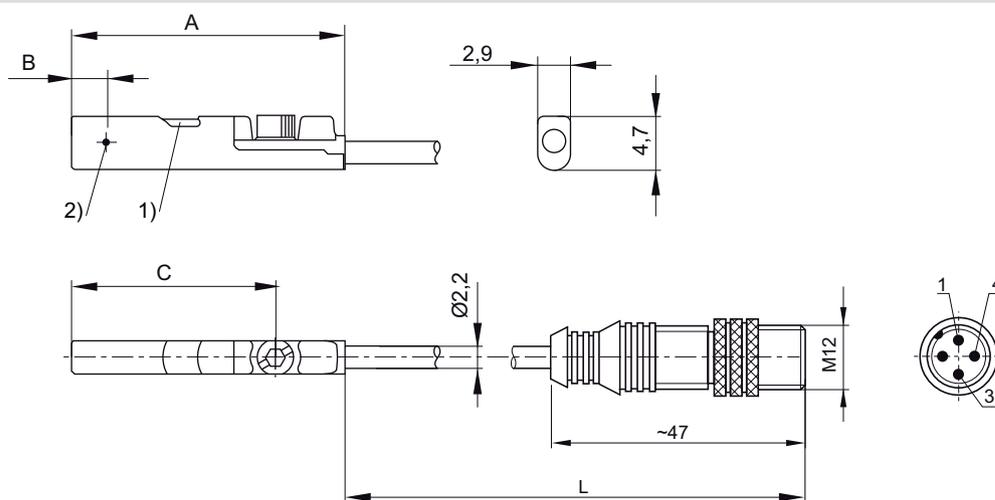
Rodless cylinders → Rodless cylinders

Series RTC
Accessories

	Type of contact	Cable length	DC operating voltage min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Switching capacity	Part No.
		[m]	[V]	[V]	[A]	[A]		
	Reed	0.3	5 / 30	I [*] Rs	0,13	0,13	3 W / 3 VA	R412019688
	electronic PNP	0.3	10 / 30	≤ 2,5	0.1	-	-	R412019689

interfaces: Plug; M12; 3-pin; with knurled screw
short circuit resistant; Protected against polarity reversal

Dimensions



21299

1) LED 2) Switching point

L = cable length

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Part No.	A	B	C								
R412019688	26.3	6.3	20.3								
R412019689	23.7	2.8	17.7								

Connecting cable with socket, Series CN2

► Socket, Snap-in plug Ø8, 3-pin, with detent ► without wire end ferrule, tin-plated



P322_141_a

Protection class
Wire cross-sectionIP 65
0.25 mm²Materials:
Housing color
Cable sheathBlack
Polyvinyl chloride

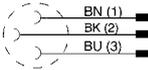
Technical Remarks

- The specified protection class is valid only in assembled and tested state.

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information
Pneumatics catalog, online PDF, as of 2014-02-11, © Rexroth Pneumatics GmbH, subject to change

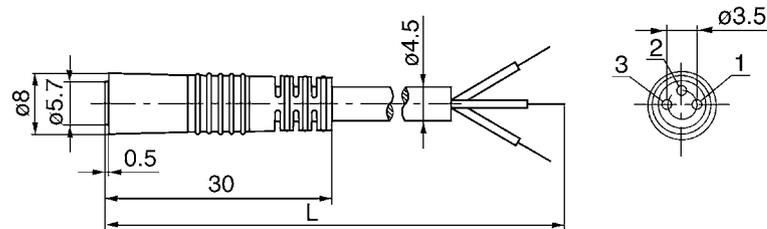
Rodless cylinders → Rodless cylinders

Series RTC
Accessories

	Electrical interface		Operating voltage max.		Max. current [A]	Number of wires	Cable exit	Part No.
	[Port 1]	[Port 2]	[V DC]	[V AC]				
	Socket, Snap-in plug Ø8, 3-pin, with detent	without wire end ferrule, tin-plated	75	60	3	3	straight 180°	8946016112

Part No.	Cable length L		Weight		Fig.
		[m]		[kg]	
8946016112		2.5		0.058	Fig. 1

Dimensions



D523_104_a

(1) BN=brown (2) BK=black (3) BU=blue
L = length

Connecting cable with socket, Series CN2

► Socket, M8, 3-pin ► open cable ends, 3-pin



00107009_b

Protection class

IP 67

Materials:

Housing color

Black

Cable sheath

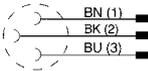
Polyvinyl chloride

Cable color

Black

Technical Remarks

- The specified protection class is valid only in assembled and tested state.

	Electrical interface		Operating voltage max.		Max. current [A]	Number of wires	Wire cross-section [mm ²]	Part No.
	[Port 1]	[Port 2]	[V DC]	[V AC]				
	Socket, M8, 3-pin	open cable ends, 3-pin	36	30	2.5	3	0.34	8946201312 8946201332

Part No.	Cable exit	Cable length L		Weight [kg]
			[m]	
8946201312			2	0.066
8946201332	straight 180°		15	0.486

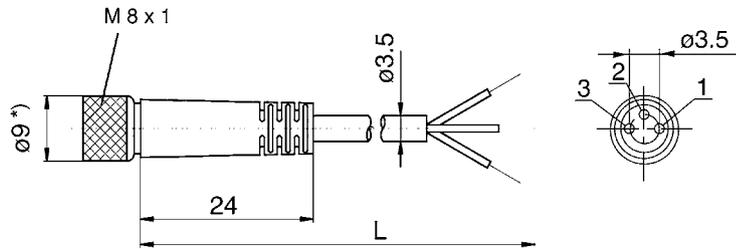
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2014-02-11, © Rexroth Pneumatics GmbH, subject to change

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Dimensions



D523_104_b

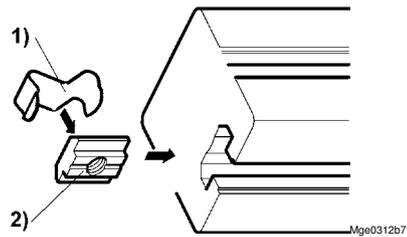
- (1) BN=brown (2) BK=black (3) BU=blue
 L = length
 *) With 15 m cable length Ø12

T-groove nut

► for CKP, GPC, RTC



00127083



Mge0312b7

Part No.	Type	For series	2)	Material	Weight [kg]			
3842523142	N6	CKP, GPC, RTC	M5	Steel galvanized	0.003			
3842514931	N8	CKP, GPC, RTC	M8	Steel galvanized	0.007			

- 1) Spring
 2) Thread connection
 For N4 grooves on CKP 16 a square nut according to DIN 557 can be used.

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Sensor, Series ST6

► 6 mm groove ► with cable ► without wire end ferrule, tin-plated



Ambient temperature min./max.	-25°C / +70°C
Protection class	IP 69K
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:

Housing	Polyamide
Cable sheath	Polyurethane

	Type of contact	Cable length	DC operating voltage min./max.	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[V]	[A]	[A]	
	Reed	3	10 / 30	10 / 30	I*Rs	0,13	0,13	0830100629
		5						0830100630
		10						R412004575
	electronic PNP	3	10 / 30	-	≤ 2,5	0.1	-	0830100631
		5						0830100632
		10						R412004576

Part No.	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	LED	Note
	[Ω]	[kHz]	[mA]	[mA]		
0830100629 0830100630 R412004575	15	< 0,3	-	< 10 mA	Yellow	1)
0830100631 0830100632 R412004576	-	< 1,0	< 20 mA	< 30 mA	Yellow	2)

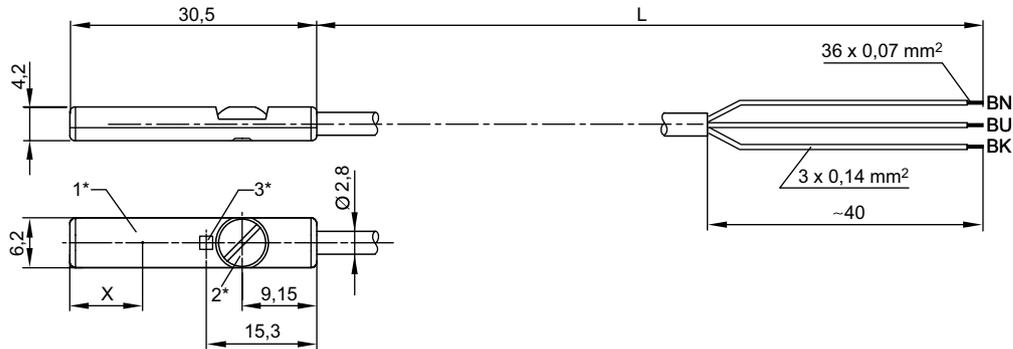
1) Protected against polarity reversal
 2) short circuit resistant; Protected against polarity reversal
 interfaces: without wire end ferrule, tin-plated
 UL (Underwriters Laboratories)

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Dimensions



00111942_b

1* = switching point 2* = clamping screw 3* = LED

L = cable length

BN = brown, BK = black, BU = blue

X = electronic: 6 mm, Reed: 10 mm

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M8, 3-pin, with knurled screw



00112027_5

Certificates

Ambient temperature min./max.

Protection class

Switching point precision [mm]

DC operating voltage min./max.

Switching capacity

LED status display

Vibration resistance

Shock resistance

UL (Underwriters Laboratories)

-25°C / +70°C

IP 65, IP 67

±0,1

10 V - 30 V

3 W / 3 VA

Yellow

10 - 55 Hz, 1 mm

30 g / 11 ms

Materials:

Housing

Polyamide

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Protective resistor for reed	Part No.
		[m]	[V]	[V]	[A]	[A]	[Ω]	
	Reed	0.3 0.5	10 / 30	I*Rs	0,13	0,13	15	0830100434 0830100436
	electronic PNP	0.3 0.5 0.3	-	≤ 2,5	0.1	-	-	0830100435 0830100437 R412004762
	electronic NPN	0.3	-	≤ 2,5	0.1	-	-	0830100431

Rodless cylinders → Rodless cylinders

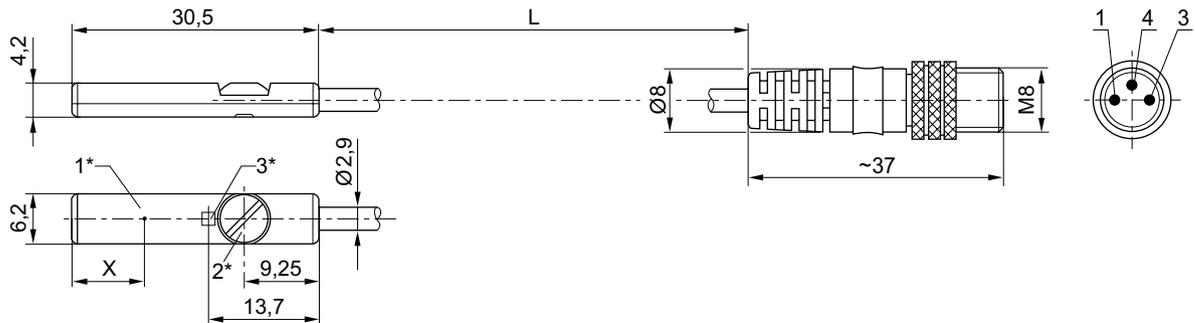
Series RTC

Accessories

Part No.	Max. switching frequency	Operating current, not switched		Operating current, switched	Note
		[kHz]	[mA]		
0830100434 0830100436	< 0,3		-	< 10 mA	1); 3)
0830100435 0830100437 R412004762	< 1,0		< 20 mA	< 30 mA	1); 4) 1); 4) 2); 4)
0830100431	< 1,0		< 20 mA	< 30 mA	1); 4)

1) Material Cable sheath: Polyurethane
 2) Material Cable sheath: Polyvinyl chloride
 3) Protected against polarity reversal
 4) short circuit resistant; Protected against polarity reversal
 interfaces: Plug; M8; 3-pin; with knurled screw

Dimensions



0011942_d

1* = switching point 2* = clamping screw 3* = LED
 L = cable length
 X = electronic: 6 mm, Reed: 10 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M8, 3-pin



00112027_3

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
DC operating voltage min./max.	10 V - 30 V
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:

Housing	Polyamide
Cable sheath	Polyurethane

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

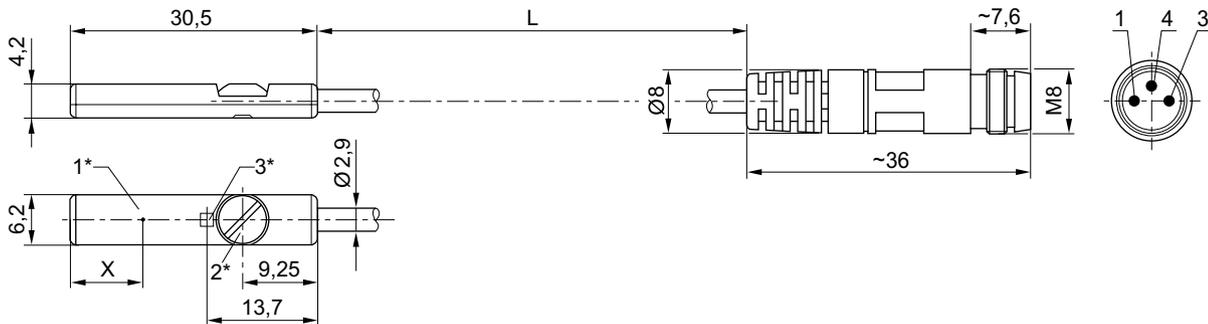
	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Protective resistor for reed	Part No.
		[m]	[V]	[V]	[A]	[A]	[Ω]	
	Reed	0.3	10 / 30	I [*] Rs	0,13	0,13	15	0830100488
	electronic PNP	0.3	-	≤ 2,5	0.1	-	-	0830100489
	electronic NPN	0.3	-	≤ 2,5	0.1	-	-	0830100430

Part No.	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[kHz]	[mA]	[mA]	
0830100488	< 0,3	-	< 10 mA	1)
0830100489	< 1,0	< 20 mA	< 30 mA	2)
0830100430	< 1,0	< 20 mA	< 30 mA	2)

1) Protected against polarity reversal

2) short circuit resistant; Protected against polarity reversal

interfaces: Plug; M8; 3-pin

Dimensions


00111942_a

1* = switching point 2* = clamping screw 3* = LED

L = cable length

X = electronic: 6 mm, Reed: 10 mm

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw



00112027_4

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25 °C / +70 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
DC operating voltage min./max.	10 V - 30 V
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:

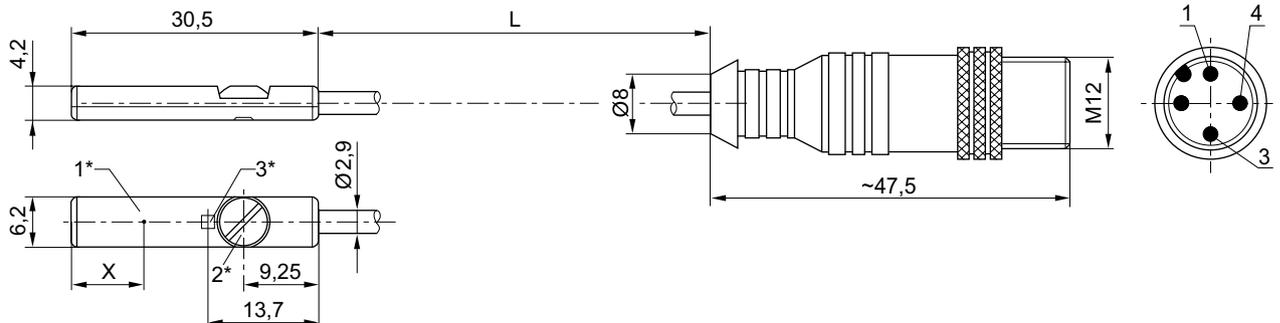
Housing	Polyamide
Cable sheath	Polyurethane

	Type of contact	Cable length [m]	Operational voltage AC min./max. [V]	Voltage drop U at I _{max} [V]	DC switching current, max. [A]	AC switching current, max. [A]	Protective resistor for reed [Ω]	Part No.
	Reed	0.3	10 / 30	I*Rs	0,13	0,13	15	0830100432
	electronic PNP	0.3	-	≤ 2,5	0.1	-	-	0830100433

Part No.	Max. switching frequency [kHz]	Operating current, not switched [mA]	Operating current, switched [mA]	Note
0830100432	< 0,3	-	< 10 mA	1)
0830100433	< 1,0	< 20 mA	< 30 mA	2)

1) Protected against polarity reversal
 2) short circuit resistant; Protected against polarity reversal
 interfaces: Plug; M12; 3-pin; with knurled screw

Dimensions



1* = switching point 2* = clamping screw 3* = LED

L = cable length

X = PNP: 6 mm, reed: 10 mm

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

00111942_c

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Sensor, Series ST8

► 8 mm groove ► with cable ► without wire end ferrule, tin-plated



P322_194_2

Ambient temperature min./max.	-25 °C / +75 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
DC operating voltage min./max.	10 V
Vibration resistance	10 - 55 Hz, 1,5 mm

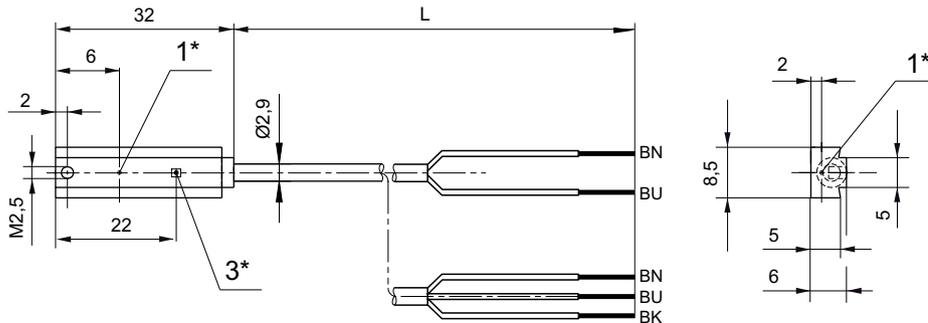
Materials:	
Housing	Polyamide
Cable sheath	Polyvinyl chloride

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Switching capacity	Part No.
		[m]	[V]	[V]	[A]	[A]		
	Reed	2.5	-- / 240	≤ 3,0	-	-	-	2750132310
		10	12 / 240	I*Rs	0.1	0,13	3 W / 3 VA	2750152310
	electronic PNP	2.5	-	≤ 2,0	0,15	-	-	2750131110
		10						2750151110

Part No.	Shock resistance Max.	Note
2750132310	-	1)
2750152310	30 g / 11 ms	
2750131110	30 g	2)
2750151110		

1) Protected against polarity reversal
 2) short circuit resistant; Protected against polarity reversal
 interfaces: without wire end ferrule, tin-plated
 Material Cable sheath: Polyvinyl chloride

Dimensions



00134180

1* = switching point
 3* = LED
 L = cable length
 BN = brown, BK = black, BU = blue

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Sensor, Series ST8

► 8 mm groove ► with cable ► Plug, M8, 3-pin



P322_194_11

Ambient temperature min./max.	-25 °C / +75 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g

Materials:

Housing	Polyamide
Cable sheath	Polyurethane

	Type of contact	Cable length	DC operating voltage min./max.	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	3 / 30	I*Rs	0.1	0,15	2750111320
	electronic PNP	0.3	10 / 30	-	≤ 2,0	0,15	-	2750111120 2750123120
	electronic NPN	0.3	10 / 30	-	≤ 2,0	0,15	-	2750111220

Part No.	Switching capacity	Note
2750111320	3 W / 3 VA	2)
2750111120 2750123120	-	3)
2750111220	-	1); 3)
		3)

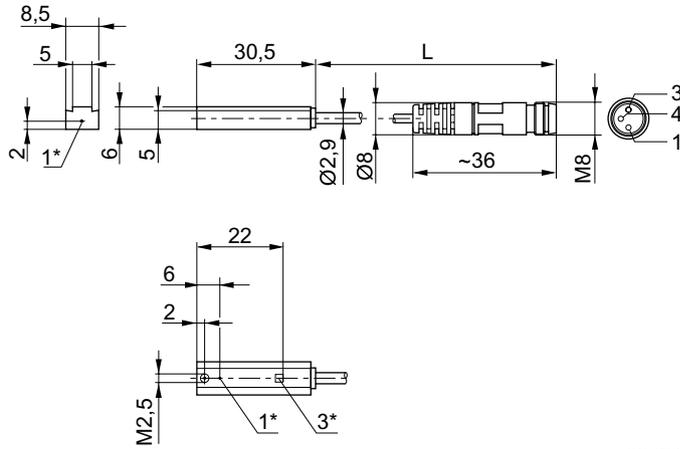
1) in accordance with EN 50082-2
 2) Protected against polarity reversal
 3) short circuit resistant; Protected against polarity reversal
 interfaces: Plug; M8; 3-pin
 Material Cable sheath: Polyurethane

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Dimensions



d322_178_b

1* = switching point

3* = LED

L = cable length

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST8

► 8 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw

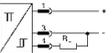


P322_194_12

Ambient temperature min./max.	-25 °C / +75 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
DC operating voltage min./max.	10 V
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g

Materials:

Housing	Polyamide
Cable sheath	Polyurethane

	Type of contact	Cable length	Voltage drop U at I _{max}	DC switching current, max.	Part No.
		[m]	[V]	[A]	
	electronic PNP	0.3	≤ 2,0	0,15	2750121120

interfaces: Plug; M12; 3-pin; with knurled screw

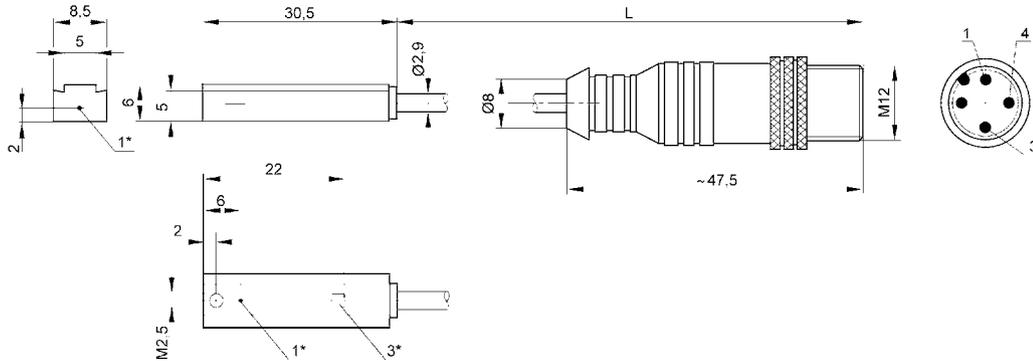
Material Cable sheath: Polyurethane

short circuit resistant; Protected against polarity reversal

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Dimensions



d322_178_c

1* = switching point
 3* = LED
 L = cable length
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Connecting cable with socket, Series CN2

► Socket, Snap-in plug Ø8, 3-pin, with detent ► without wire end ferrule, tin-plated



P322_141_a

Protection class IP 65
 Wire cross-section 0.25 mm²
 Materials:
 Housing color Black
 Cable sheath Polyvinyl chloride

Technical Remarks

■ The specified protection class is valid only in assembled and tested state.

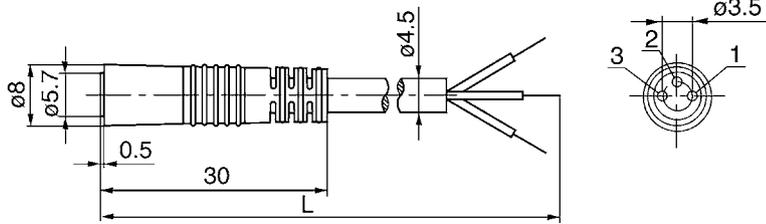
	Electrical interface		Operating voltage max.		Max. current	Number of wires	Cable exit	Part No.
	[Port 1]	[Port 2]	[V DC]	[V AC]	[A]			
	Socket, Snap-in plug Ø8, 3-pin, with detent	without wire end ferrule, tin-plated	75	60	3	3	straight 180°	8946016112
Part No.	Cable length L			Weight		Fig.		
	[m]			[kg]				
8946016112	2.5			0.058		Fig. 1		

Rodless cylinders → Rodless cylinders

Series RTC

Accessories

Dimensions



D523_104_a

(1) BN=brown (2) BK=black (3) BU=blue
L = length

Connecting cable with socket, Series CN2

► Socket, M8, 3-pin ► open cable ends, 3-pin



00107009_b

Protection class

IP 67

Materials:

Housing color

Black

Cable sheath

Polyvinyl chloride

Cable color

Black

Technical Remarks

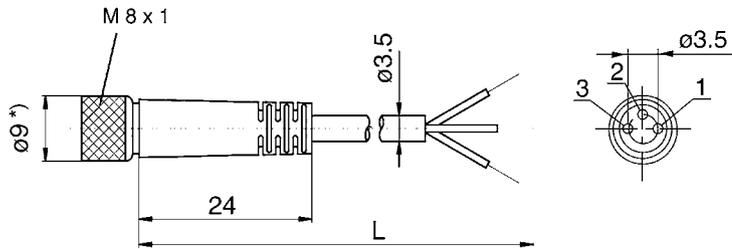
- The specified protection class is valid only in assembled and tested state.

	Electrical interface		Operating voltage max.		Max. current [A]	Number of wires	Wire cross-section [mm ²]	Part No.
	[Port 1]	[Port 2]	[V DC]	[V AC]				
	Socket, M8, 3-pin	open cable ends, 3-pin	36	30	2.5	3	0.34	8946201312
								8946201332
Part No.	Cable exit		Cable length L		Weight			
					[m]		[kg]	
8946201312	straight 180°				2			0.066
8946201332					15			0.486

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Dimensions



D523_104_b

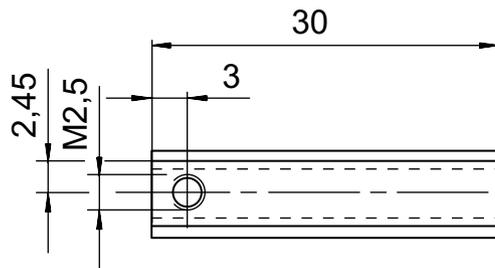
(1) BN=brown (2) BK=black (3) BU=blue
L = length
*) With 15 m cable length Ø12

Cable holder

► to mount on cylinder Series RTC-SB



P277_012



00132552

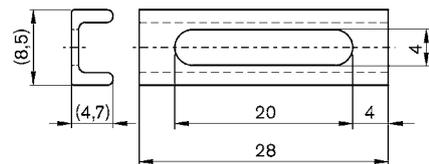
Part No.	Material										
2772116000	Aluminum										

Sensor mounting

► for Series ST6 ► to mount on cylinder Series RTC-SB



00122884



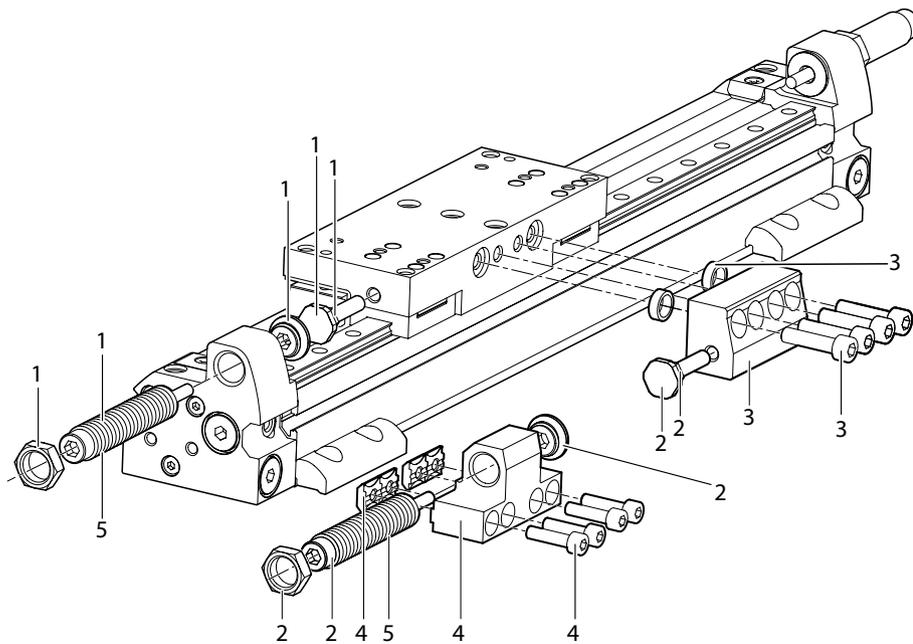
00128136

Part No.	For series	Ø	Material								
R402000085	ST6	16-80	Aluminum								

Rodless cylinders → Rodless cylinders

Series RTC
Accessories
Kit for shock absorber adjustment for RTC and CKP


00125260



00124927

Part No.	m [kg]	2)	Ø16	Ø25	Ø32	Ø40	Ø50	Ø63
R402002804	<4	1, 2	RTC-HD RTC-CG CKP	-	-	-	-	-
R402002805	<8	1, 2	-	RTC-HD RTC-CG CKP	RTC-HD RTC-CG CKP	RTC-HD RTC-CG	-	-
R402002806	<23	2	-	-	-	-	RTC-HD	RTC-HD
R402003618	>4	1, 2	RTC-HD RTC-CG CKP	-	-	-	-	-
R402003619	>8	1, 2	-	RTC-HD RTC-CG CKP	RTC-HD RTC-CG CKP	RTC-HD RTC-CG	-	-
R402003620	>23	2	-	-	-	-	RTC-HD	RTC-HD
R402002695	-	3	RTC-HD RTC-CG	-	-	-	-	-

m = mass

2) Single parts

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Part No.	m [kg]	2)	Ø16	Ø25	Ø32	Ø40	Ø50	Ø63
R402002696	-	3	-	RTC-HD RTC-CG	RTC-CG	-	-	-
R402002698	-	3	-	-	RTC-HD	-	-	-
R402002699	-	3	-	-	-	RTC-CG	-	-
R402002700	-	3	-	-	-	RTC-HD	-	-
R402002701	-	3	-	-	-	-	RTC-HD	RTC-HD
R402002702	-	4	RTC-HD RTC-CG CKP	-	-	-	-	-
R402002703	-	4	-	RTC-HD RTC-CG CKP	-	-	-	-
R402002704	-	4	-	-	RTC-HD RTC-CG CKP	RTC-HD RTC-CG	-	-
R402003397	-	4	-	-	-	-	RTC-HD	RTC-HD

m = mass

2) Single parts

Industrial shock absorber, Series SA2-RT

► for RTC-16, RTC-25,-32,-40, RTC-50,-63 ► sealing for piston rod: Lip ring



00135329

Ambient temperature min./max.

-10°C / +60°C

Impact speed, min./max.

See table below

Medium

Oil

Mounting

Lock nut

Materials:

Cylinder tube

Steel, bronzed

Piston rod

Stainless steel, hardened

Lock nut

Steel, bronzed

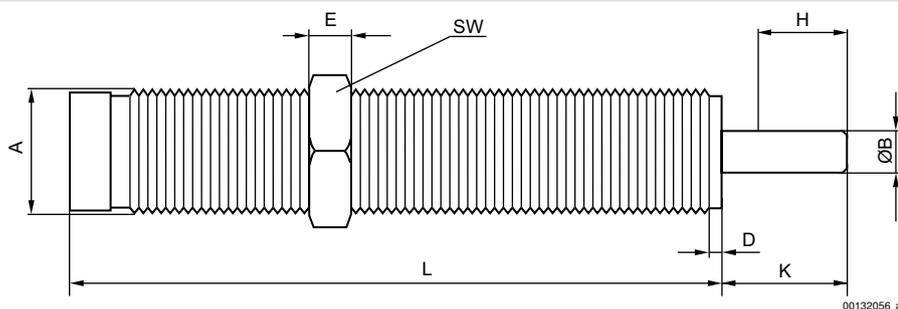
	Type	Stroke	for	Effective mass me min./max.	Return spring force min./max.	Impact speed min./max.	Part No.
		[mm]		[kg]	[N]	[m/s]	
	SA2-RT	10	RTC-16	0.5 / 1.8	3.5 / 7	3.5 / 5	R412010695
		10	RTC-16	1.5 / 7.7	3.5 / 7	1.9 / 4.3	R412010696
		10	RTC-16	5 / 57	3.5 / 7	0.7 / 2.4	R412010697
		14	RTC-25,-32,-40	3.5 / 17	13 / 23	1.9 / 4.1	R412010698
		14	RTC-25,-32,-40	9.9 / 76	13 / 23	0.9 / 2.5	R412010699
		14	RTC-25,-32,-40	62 / 252	13 / 23	0.5 / 1	R412010700
		13	RTC-50,-63	7.5 / 36	12 / 23	1.9 / 4.2	R412010701
		13	RTC-50,-63	20 / 160	12 / 23	0.9 / 2.6	R412010702
		13	RTC-50,-63	130 / 610	12 / 23	0.5 / 1	R412010703

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Part No.	Mounting thread	Delivery unit
R412010695	M12x1	1
R412010696	M12x1	
R412010697	M12x1	
R412010698	M14x1,5	
R412010699	M14x1,5	
R412010700	M14x1,5	
R412010701	M20x1,5	
R412010702	M20x1,5	
R412010703	M20x1,5	

Dimensions



H = stroke
A = mounting thread

Part No.	Type	Mounting thread	ØB	D	E	H	K	L	SW
R412010695	SA2-RT	M12x1	4	2.5	4	10	15	52	14
R412010696	SA2-RT	M12x1	4	2.5	4	10	15	52	14
R412010697	SA2-RT	M12x1	4	2.5	4	10	15	52	14
R412010698	SA2-RT	M14x1,5	4	2.5	5	14	18.5	69	17
R412010699	SA2-RT	M14x1,5	4	2.5	5	14	18.5	69	17
R412010700	SA2-RT	M14x1,5	4	2.5	5	14	18.5	69	17
R412010701	SA2-RT	M20x1,5	6	2.5	6	13	18	75	24
R412010702	SA2-RT	M20x1,5	6	2.5	6	13	18	75	24
R412010703	SA2-RT	M20x1,5	6	2.5	6	13	18	75	24

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Industrial shock absorber, Series SA1-MC

► sealing for piston rod: Lip ring



00136590

Ambient temperature min./max.
Impact speed, min./max.
Medium
Mounting

-20 °C / +80 °C
See table below
Oil
Lock nut

Materials:

Cylinder tube
Piston rod
Lock nut

Steel, salt bath nitrocarburized
Stainless steel, hardened
Steel, salt bath nitrocarburized

	Type	Stroke	Effective mass me min./max.	Return spring force min./max.	Impact speed min./max.	Mounting thread	Fig.	Part No.
		[mm]	[kg]	[N]	[m/s]			
	SA1-MC	5	0.8 / 2.8	2 / 5	0.9 / 1.6	M6x0,5	Fig. 1	R412010284
		5	1.5 / 4	2 / 5	0.7 / 1.2	M6x0,5	Fig. 1	R412010285
		5	0.5 / 4	2 / 5	0.9 / 2.5	M8x1	Fig. 2	R412010286
		5	0.8 / 6	2 / 5	0.7 / 1.9	M8x1	Fig. 2	R412010287
		8	1.3 / 5.3	3.6 / 8	1.9 / 3.9	M10x1	Fig. 3	R412010288
		8	4.3 / 20	3.6 / 8	1 / 2.2	M10x1	Fig. 3	R412010289
		8	16.5 / 47	3.6 / 8	0.7 / 1.1	M10x1	Fig. 3	R412010290
		10	0.5 / 1.8	3.5 / 7	3.5 / 5	M12x1	Fig. 4	R412010291
		10	1.5 / 7.7	3.5 / 7	1.9 / 4.3	M12x1	Fig. 4	R412010292
		10	5 / 57	3.5 / 7	0.7 / 2.4	M12x1	Fig. 4	R412010293

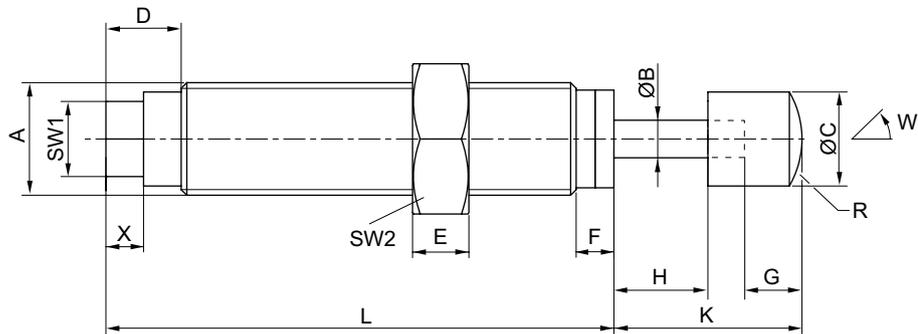
Part No.	Note	Delivery unit
R412010284	1); 3)	1
R412010285	1); 3)	
R412010286	2); 4)	
R412010287	2); 4)	
R412010288	2); 4)	
R412010289	2); 4)	
R412010290	2); 4)	
R412010291	2); 4)	
R412010292	2); 4)	
R412010293	2); 4)	

- 1) sealing for piston rod: Polyurethane
 2) sealing for piston rod: Acrylonitrile Butadiene Rubber
 3) Stop: Polyoxymethylene
 4) Stop: Polyurethane; Steel

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Fig. 1



00110471_a

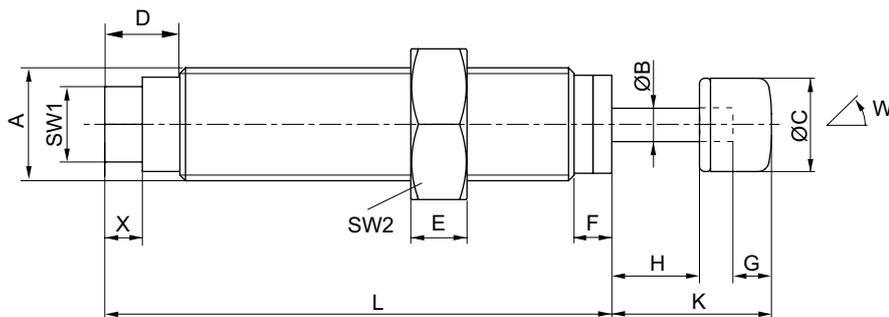
A = mounting thread

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L
R412010284	SA1-MC	M6x0,5	2	5	4	3	2	2	5	10	27
R412010285	SA1-MC	M6x0,5	2	5	4	3	2	2	5	10	27

Part No.	Type	R	SW1	SW2	W [°]	X	ØB	ØC	D	E	F	G
R412010284	SA1-MC	5	4	8	2	2	2	5	4	3	2	2
R412010285	SA1-MC	5	4	8	2	2	2	5	4	3	2	2

Part No.	Type	H	K	L	R	SW1	SW2	W [°]	X
R412010284	SA1-MC	5	10	27	5	4	8	2	2
R412010285	SA1-MC	5	10	27	5	4	8	2	2

Fig. 2



00110471_d

A = mounting thread

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L
R412010286	SA1-MC	M8x1	2.3	6.5	6	3	2.5	3	5	11.5	30
R412010287	SA1-MC	M8x1	2.3	6.5	6	3	2.5	3	5	11.5	30

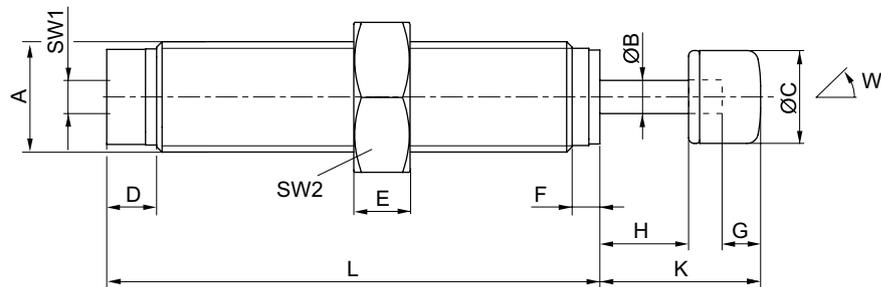
Part No.	Type	SW1	SW2	W [°]	X	ØB	ØC	D	E	F	G	H
R412010286	SA1-MC	5.5	11	3	3	2.3	6.5	6	3	2.5	3	5
R412010287	SA1-MC	5.5	11	3	3	2.3	6.5	6	3	2.5	3	5

Part No.	Type	K	L	SW1	SW2	W [°]	X
R412010286	SA1-MC	11.5	30	5.5	11	3	3
R412010287	SA1-MC	11.5	30	5.5	11	3	3

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Fig. 3



00110471_b

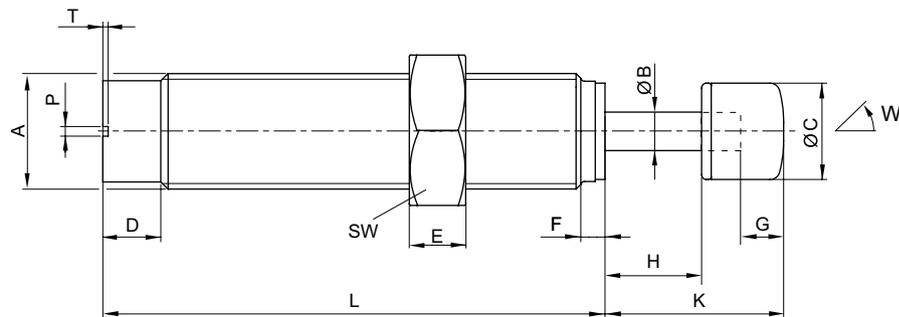
A = mounting thread

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L
R412010288	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5
R412010289	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5
R412010290	SA1-MC	M10x1	3	8.4	4.5	3	2.5	3	8	14.5	44.5

Part No.	Type	SW1	SW2	W [°]	ØB	ØC	D	E	F	G	H	K
R412010288	SA1-MC	3	13	2	3	8.4	4.5	3	2.5	3	8	14.5
R412010289	SA1-MC	3	13	2	3	8.4	4.5	3	2.5	3	8	14.5
R412010290	SA1-MC	3	13	2	3	8.4	4.5	3	2.5	3	8	14.5

Part No.	Type	L	SW1	SW2	W [°]						
R412010288	SA1-MC	44.5	3	13	2						
R412010289	SA1-MC	44.5	3	13	2						
R412010290	SA1-MC	44.5	3	13	2						

Fig. 4



00110471_c

A = mounting thread

Part No.	Type	Mounting thread	ØB	ØC	D	E	F	G	H	K	L
R412010291	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52
R412010292	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52
R412010293	SA1-MC	M12x1	4	10	6	4	2.5	4	10	18.5	52

Part No.	Type	P	T	SW	W [°]	ØB	ØC	D	E	F	G	H
R412010291	SA1-MC	1	0.6	14	2	4	10	6	4	2.5	4	10
R412010292	SA1-MC	1	0.6	14	2	4	10	6	4	2.5	4	10
R412010293	SA1-MC	1	0.6	14	2	4	10	6	4	2.5	4	10

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Part No.	Type	K	L	P	T	SW	W [°]					
R412010291	SA1-MC	18.5	52	1	0.6	14	2					
R412010292	SA1-MC	18.5	52	1	0.6	14	2					
R412010293	SA1-MC	18.5	52	1	0.6	14	2					

Industrial shock absorber, Series SA1-MC

► sealing for piston rod: Lip ring



00136593

Ambient temperature min./max.

-20 °C / +80 °C

Impact speed, min./max.

See table below

Medium

Oil

Mounting

Lock nut

Materials:

Cylinder tube

Steel, salt bath nitrocarburized

Piston rod

Stainless steel, ground and hardened

sealing for piston rod

Acrylonitrile Butadiene Rubber

Lock nut

Steel, salt bath nitrocarburized

Scraper

Polyurethane

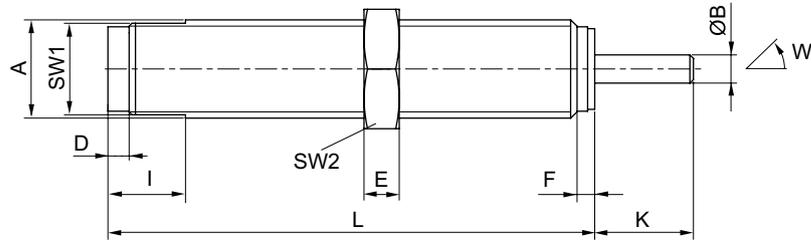
	Type	Stroke	Effective mass me min./max.	Return spring force min./max.	impact speed min./max.	Mounting thread	Fig.	Part No.
		[mm]	[kg]	[N]	[m/s]			
	SA1-MC	14	3.5 / 17	13 / 23	1.9 / 4.1	M14x1,5	Fig. 1	R412010304
		14	9.9 / 76	13 / 23	0.9 / 2.5	M14x1,5	Fig. 1	R412010305
		14	62 / 252	13 / 23	0.5 / 1	M14x1,5	Fig. 1	R412010306
		13	7.5 / 36	12 / 23	1.9 / 4.2	M20x1,5	Fig. 2	R412010307
		13	20 / 160	12 / 23	0.9 / 2.6	M20x1,5	Fig. 2	R412010308
		13	130 / 610	12 / 23	0.5 / 1	M20x1,5	Fig. 2	R412010309
		25	24 / 120	15 / 31	1.9 / 4.3	M25x1,5	Fig. 2	R412010310
		25	440 / 2050	15 / 31	1 / 2.5	M25x1,5	Fig. 2	R412010311
		25	1760 / 10800	15 / 31	0.5 / 1	M25x1,5	Fig. 2	R412010312

Part No.	Delivery unit
R412010304	1
R412010305	
R412010306	
R412010307	
R412010308	
R412010309	
R412010310	
R412010311	
R412010312	

Rodless cylinders → Rodless cylinders

Series RTC
Accessories

Fig. 1



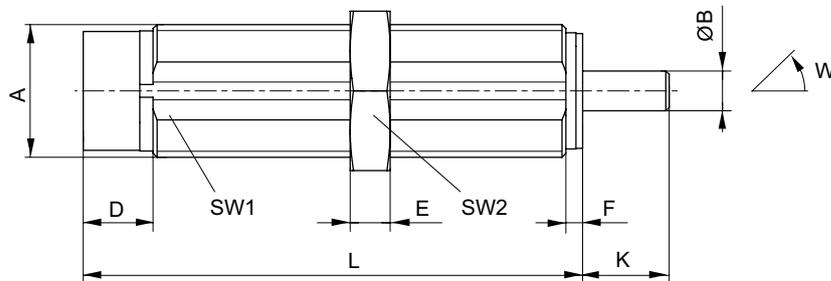
00121346_a

A = mounting thread

Part No.	Type	Mounting thread	ØB	D	E	F	I	K	L	SW1	SW2
R412010304	SA1-MC	M14x1,5	4	3	5	2.5	11	14	69	13	17
R412010305	SA1-MC	M14x1,5	4	3	5	2.5	11	14	69	13	17
R412010306	SA1-MC	M14x1,5	4	3	5	2.5	11	14	69	13	17

Part No.	Type	W [°]									
R412010304	SA1-MC	4									
R412010305	SA1-MC	4									
R412010306	SA1-MC	4									

Fig. 2



00121346_b

A = mounting thread

Part No.	Type	Mounting thread	ØB	D	E	F	K	L	SW1	SW2	W [°]
R412010307	SA1-MC	M20x1,5	6	10.5	6	2.5	13	75	18	24	4
R412010308	SA1-MC	M20x1,5	6	10.5	6	2.5	13	75	18	24	4
R412010309	SA1-MC	M20x1,5	6	10.5	6	2.5	13	75	18	24	4
R412010310	SA1-MC	M25x1,5	8	9.5	8	3.5	25	108	23	30	2
R412010311	SA1-MC	M25x1,5	8	9.5	8	3.5	25	108	23	30	2
R412010312	SA1-MC	M25x1,5	8	9.5	8	3.5	25	108	23	30	2

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