

Pneumatic cylinders

**Rodless cylinders
Serie P1R**

Catalogue 2178GB-4-po





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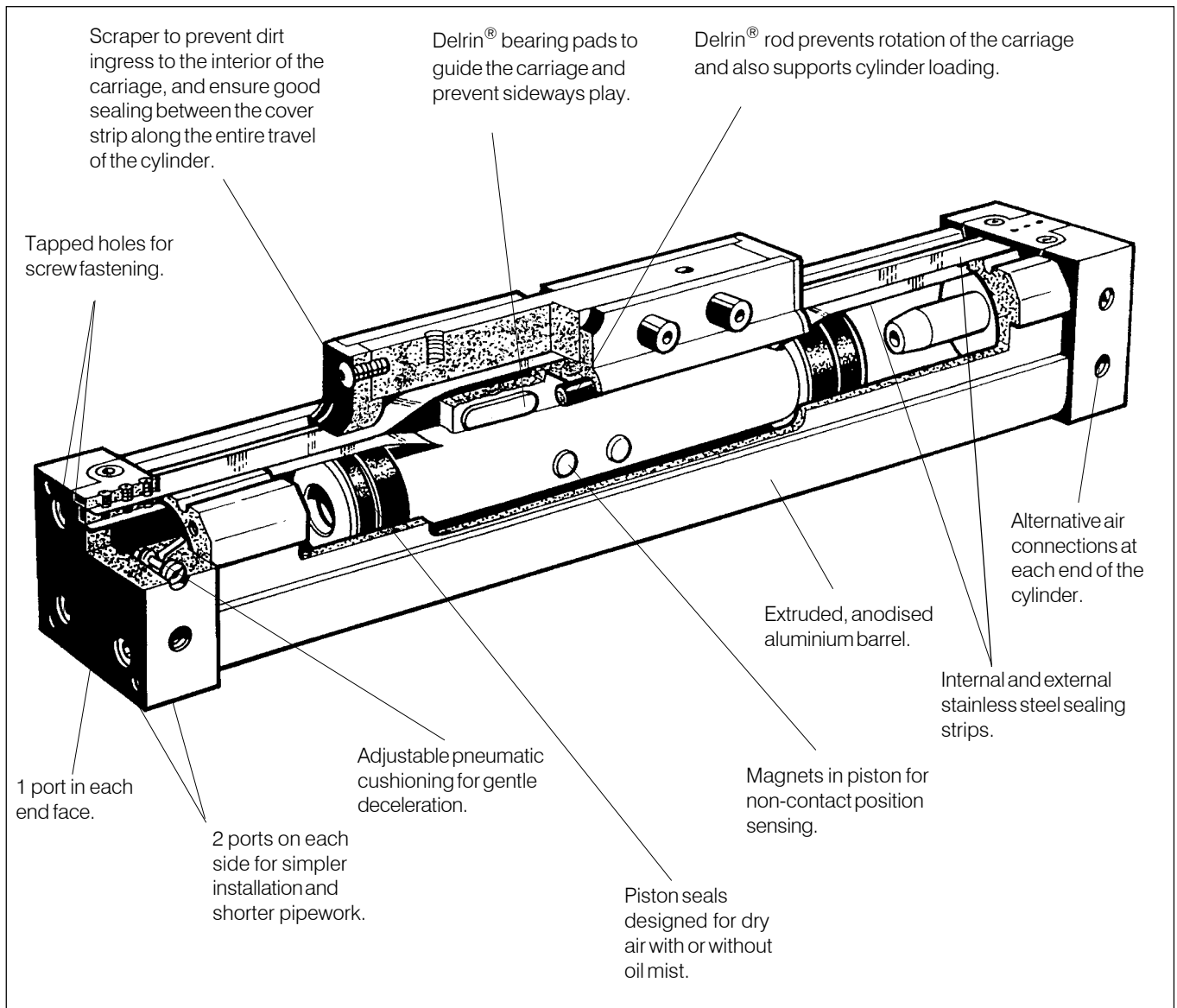
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Rodless cylinders, Ø 16, 25, 32, 40, 50 and 63 mm

■ Compact installation

Parker rodless cylinders are particularly suitable for compact installation, in a restricted space. Thanks to new design principles, the overall length has been reduced to a minimum, about half compared with a conventional cylinder.

■ Efficient technology

Sealing at the edge of the extrusion is assured by two specially profiled strips (stainless steel foil).

■ Rigidity

The Delrin® bearing pads, the carriage, permit greater torque to be exerted and greater loads to be transmitted.

■ Longer service life

Lubricated for life on assembly, Parker rodless cylinders do not need any maintenance or lubrication whatsoever.

■ Pneumatic cushioning

Parker rodless cylinders use pneumatic cushioning. This is adjustable to suit the loads transmitted and the speeds achieved, allowing greater permissible loading. Shock absorbing seals also permit faster deceleration.

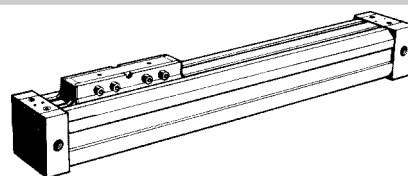
■ Simple use

All air supplies may be connected at one end, to facilitate installation. However, for higher speed, the rodless cylinder can be supplied by one pipe at each end either on the side or on the end face.

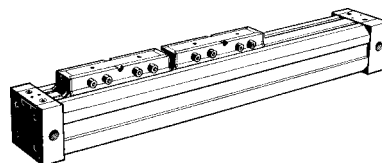
■ Electronic or magnetic position sensing

Position sensing is possible along the entire piston travel by means of electronic detectors or magnetic sensors.

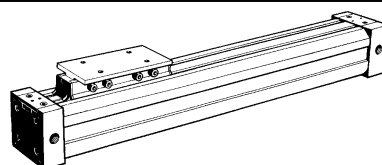
Single carriage



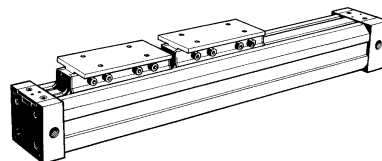
Double carriage



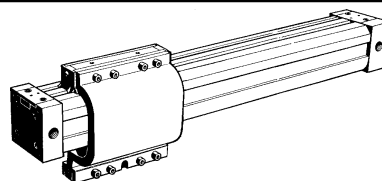
Single T-carriage



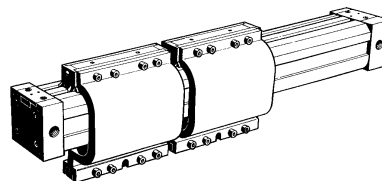
Double T-carriage



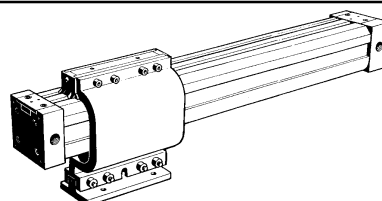
Single cantilever carriage



Double cantilever carriage

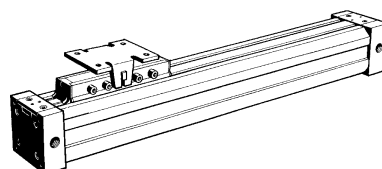


Single cantilever T-carriage

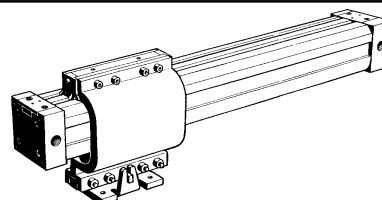


Double cantilever T-carriage

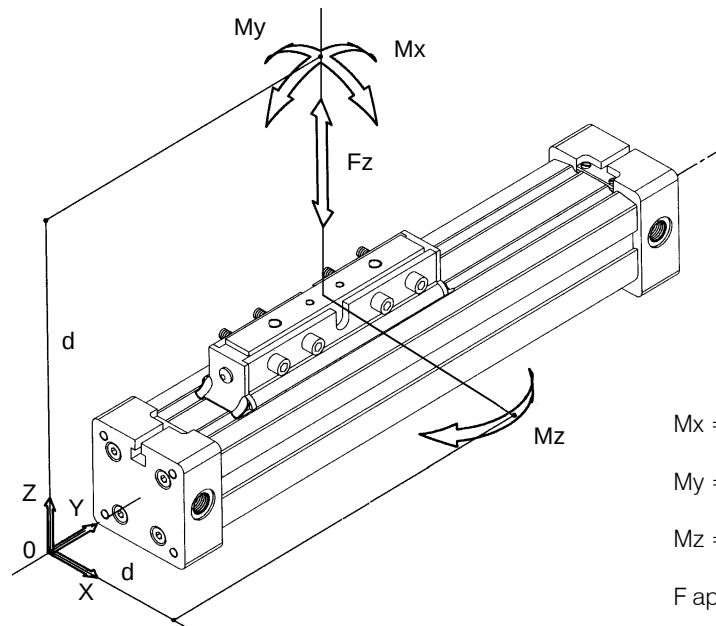
Single articulated carriage



Single articulated cantilever carriage



Main data



$$M_x = F \cdot d$$

$$M_y = F \cdot d$$

$$M_z = F \cdot d$$

F apply according to X, Y, Z.

Diameter (mm)			16	25	32	40	50	63
Stroke mini (mm)			100					
Stroke max (mm) single carriage			5700	7100		7000	4000	6900
Stroke max (mm) double carriage			5600	7000	6900	6800	3700	6600
Load max (kg)	Single carriage	Horizontal alignment carriage upwards* Fz	12	30	45	75	120	165
		Horizontal alignment carriage downwards* Fz	12	30	45	75	120	165
	Double carriage	Horizontal alignment carriage upwards* Fz	24	60	90	150	240	330
		Horizontal alignment carriage downwards* Fz	24	60	90	150	240	330
Torque max (Nm)	Single carriage	Transverse, single carriage Mz	0,5	3	5	8	15	24
		Sideways, single carriage My	0,3	1	2	4	7	8
		Lengthways, single carriage Mx	4	15	30	60	115	200
	Double carriage	Transverse, single carriage Mz	See diagram, page 8					
		Sideways, single carriage My	0,6	2	4	8	14	16
		Lengthways, single carriage Mx	See diagram, page 8					
Thrust (N) * Fy			110	250	420	640	1000	1550
Working pressure range (bar)			2 to 8					
Air consumption (dm³) * for 100 mm stroke			0,14	0,34	0,55	0,87	1,36	2,16
Cushioning distance (mm)			15	21	26	32	32	40
Port size (each end)			M5	G1/8	G1/4	G1/4	G3/8	G3/8
Port size (single end)			—	G1/8 G1/8	G1/8 G1/4	G1/8 G1/4	G3/8 G1/4	G3/8 G3/8
Service life (km)			6000					
Working temperature range (°C)			from -10 to + 70					
Weight (kg) single carriage		Stroke 0 mm	0,4	1	2	3,6	5	9
Weight (kg) double carriage		Stroke 0 mm	0,6	1,6	2,9	4,9	8,2	13,2
		Per 100 mm stroke	0,1	0,27	0,4	0,6	0,86	1,02

* at 6 bar working pressure

The chart shows the admissible maxi values when operated in regular and smooth conditions.

Also those values should not be overstepped in dynamic area.

Loads and torques shown refer to speeds $\leq$ to 0,2 m.s⁻¹

The maxi service life is reached when the carriage speed is $\leq$ to 1m.s⁻¹

General information

End of stroke stops	Pistons on end face	
Cushioning	Pneumatic cushioning with screw adjustment	
Repeatability	0,03 mm	
Position sensing	Electronic detectors or sensors	
Visual indication of detection	LED** on the body of the detector or sensor	
Carriage guide	Dia 16 and 25 mm Delrin® bearing pads	Dia 32 to 63 mm Delrin® bearing pads, Delrin® rod
Protection	Exterior stainless steel strip	
Sealing	Interior stainless steel strip	
Pneumatic connection***	One or both ends	
Function	Dry air, with or without oil mist	
Mounting	Foot, brackets on each end and centre supports dovetailed into the barrel	
Carriage fixation	Tapped or smooth holes, depending on the type of carriage chosen	

** Light Emitting Diode

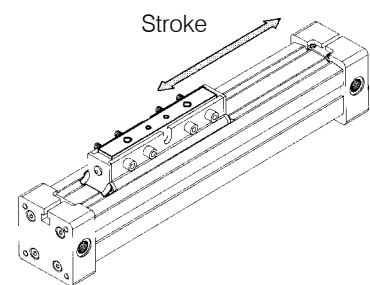
*** Flow control valve not included

Option :

- Low speed version from 0,04 to 0,10 m.s⁻¹

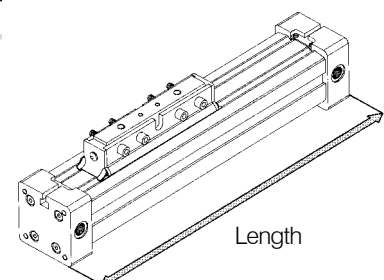
Tolerance on piston travel

Ø	Single carriage			Double carriage		
	<1000 mm	1001 to 5000 mm	>5001 mm	<1000 mm	1001 to 5000 mm	>5001 mm
16	0 +1,8	0 +2,3	0 +3,3	+0,4 +2,9	+0,4 +3,2	+0,4 +4,2
25	+0,5 +2,3	+0,5 +2,8	+0,5 +3,8	+0,6 +2,9	+0,6 +3,4	+0,6 +4,4
32	+0,2 +1,8	+0,2 +2,3	+0,2 +3,3	+0,2 +2,1	+0,2 +2,6	+0,2 +3,6
40	+0,3 +1,9	+0,3 +2,4	+0,3 +3,4	+0,4 +2,3	+0,4 +2,8	+0,4 +3,8
50	+0,2 +1,8	+0,2 +2,3	+0,2 +3,3	+0,4 +2,3	+0,4 +2,8	+0,4 +3,8
63	+0,2 +1,8	+0,2 +2,3	+0,2 +3,3	+0,2 +2,1	+0,2 +2,6	+0,2 +3,6

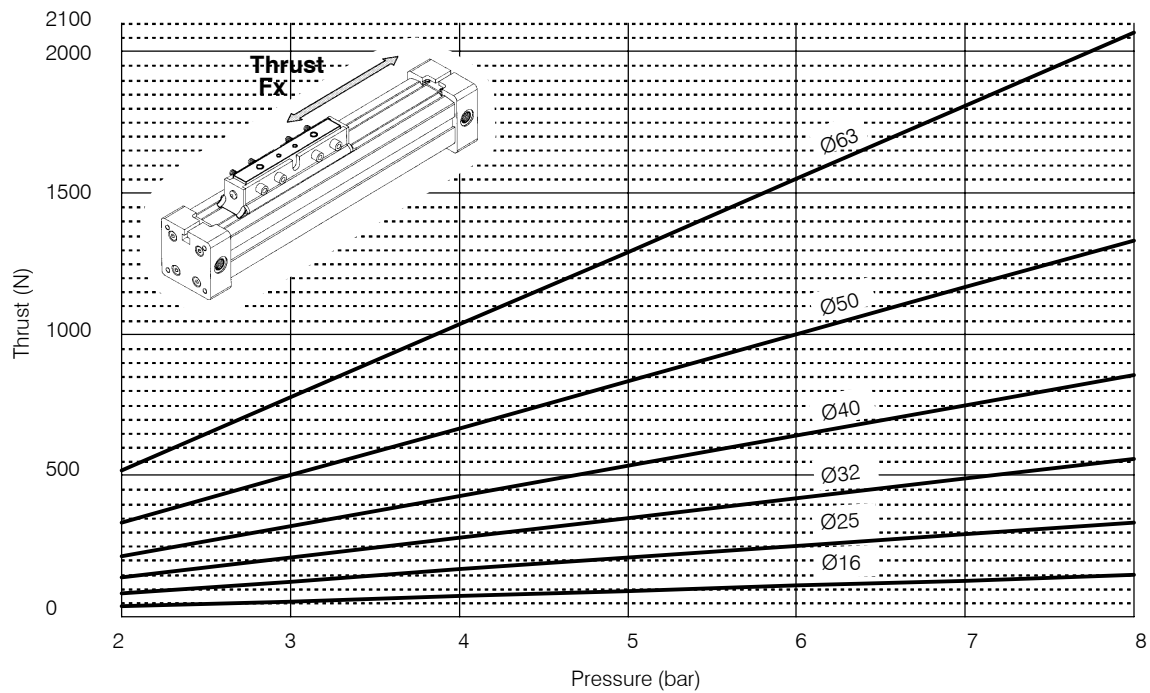


Tolerances on cylinder length (Single and double carriages)

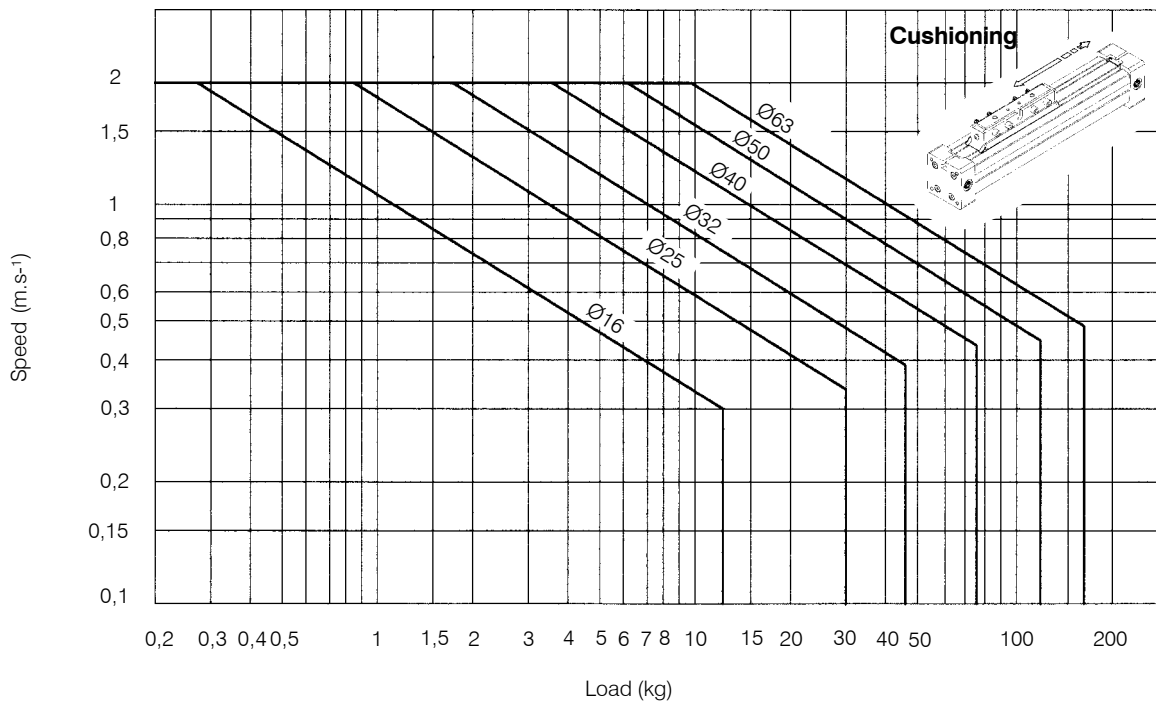
Ø	< 1000 mm	1001 to 5000 mm	> 5001 mm
16			
25			
32	- 0,2	- 0,2	- 0,2
40	+ 0,7	+ 1,2	+ 2,2
50			
63			



Thrust

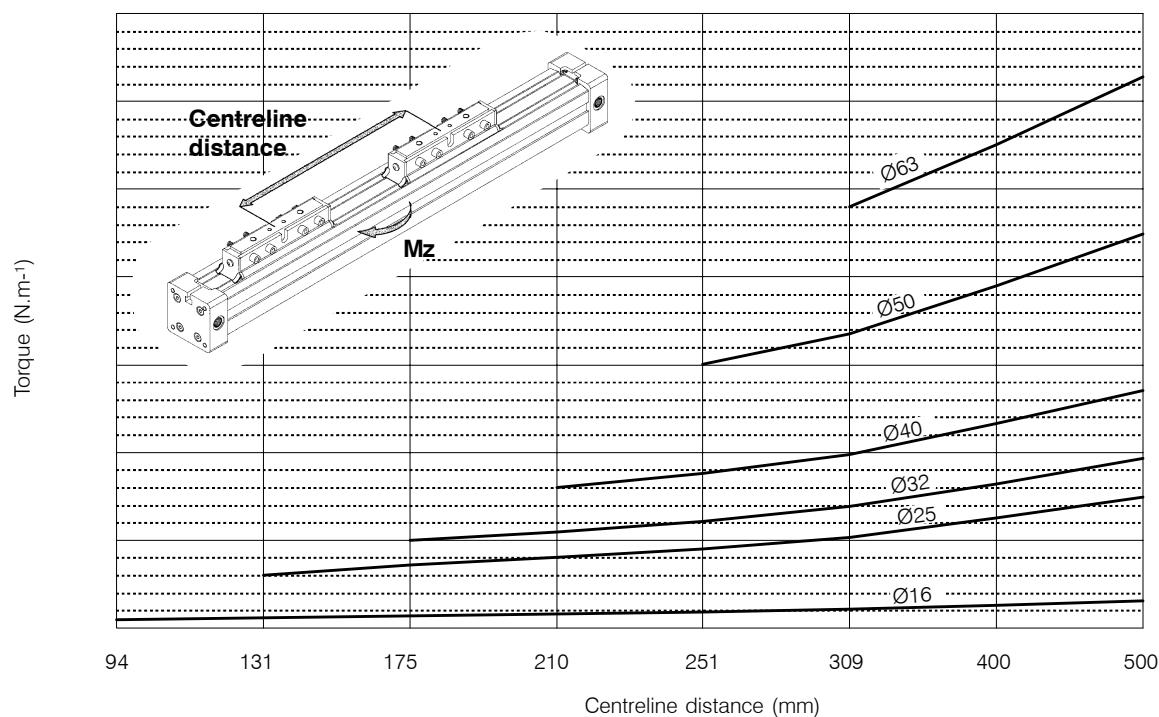


Cushioning capacity at end of stroke

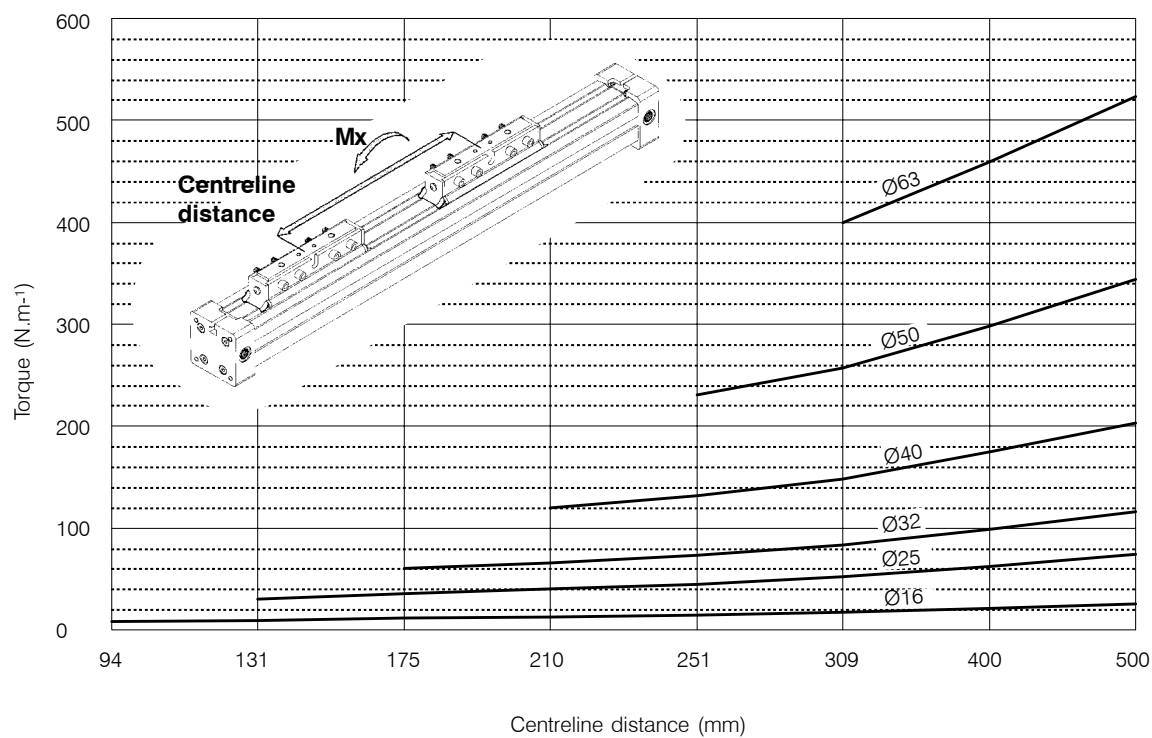


If maximum values are exceeded, additional shock absorbers must be scheduled.

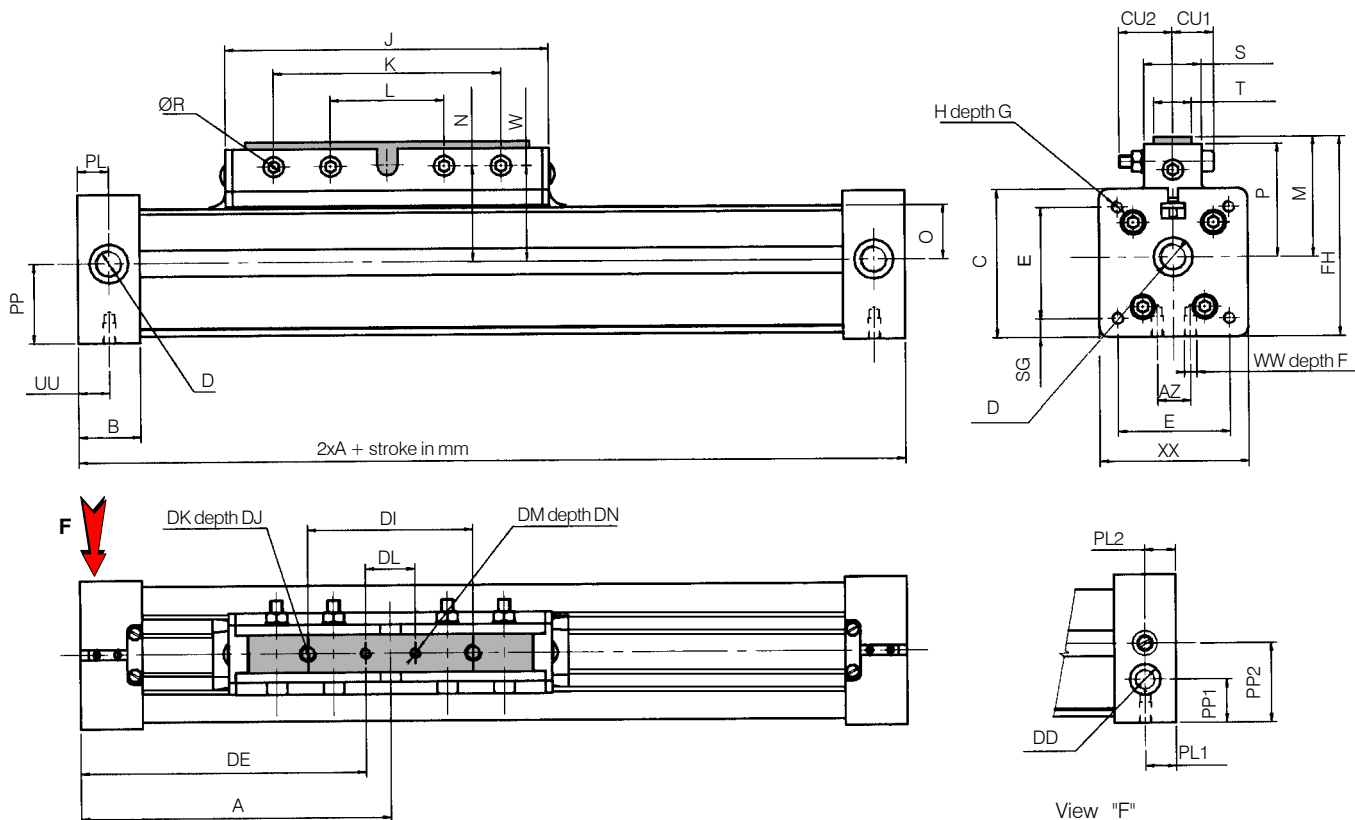
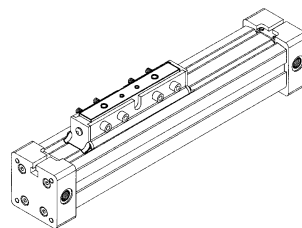
Transverse torque, double carriage



Lengthways torque double carriage



Single carriage P1R-SXXXX0-XXXX

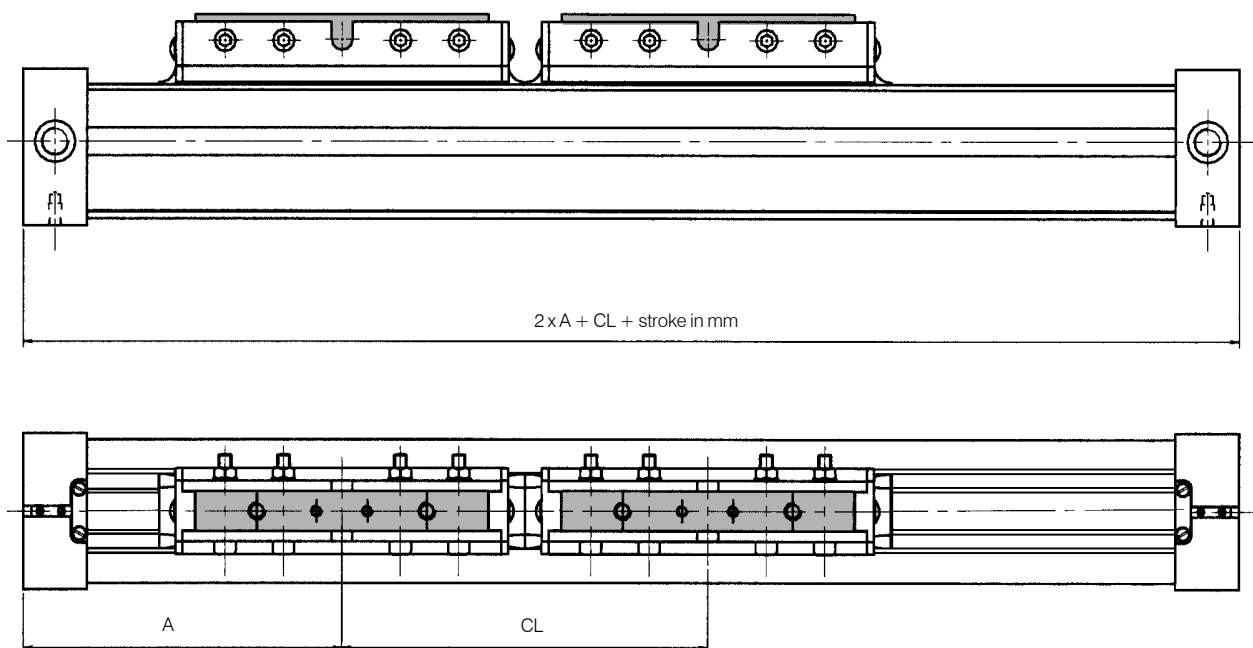


Dimensions (mm)

Ø	A	AZ	B	C	CU1	CU2	D	DD	DE	DI	DJ	DK	DL	DM	DN	E	F	FH	G	H	J
16	65	-	15	26	13	16	M5	-	-	48	7	M4	-	-	-	17,5 (H) 14,5 (V)	-	43	6	M3	76
25	100,5	9,5	25	43	18	17	1/8	1/8	95	80	11	M5	24	M5	11	27	10	58	14	M5	127
32	126	16	25	54	22	24	1/4	1/8	114	120	13	M6	24	M5	13	36	12	75	14	M5	167
40	151	16	30	72	20	26	1/4	1/8	139	80	19	M8	24	M5	19	54	12	97	15	M6	157
50	170	16	32	78	25	28	3/8	1/4	-	160	17	M8	-	-	-	54	21	104	21	M8	219
63	215	16	38	106	23	30	3/8	3/8	-	140	22	M8	-	-	-	78	21	136	21	M8	227

Ø	K	L	M	N	O	P	PL	PL1	PL2	PP	PP1	PP2	ØR	S	SG	T	UU	W	WW	XX
16	64	32	29	23	11	28	6	-	12	13	-	17	5	18	6	10	-	23	-	32
25	50	25	36,5	30	16	36,5	15	15	15	21,5	14	26	6	26	6,5	15	14	31,5	M5	57
32	100	51	46	39	22,5	46	15	16	16	30	19	33	7	32	8	18	16	38	M6	57
40	110	55	58	46	26	55	15	15	15	39	21	39	7	28	9	18	15	46	M6	72
50	140	95	62	52	30	62	16	16	16	42	25	46	9	34	12	19	16	52	M8	86
63	180	90	76	61	39	71	19	19	19	60	28	60	9	30	15	19	19	61	M8	106

Double carriage P1R-RXXXX0-XXXX



Dimensions (mm)

Ø	A	CL
16	65	94
25	100,5	131
32	126	175
40	151	210
50	170	251
63	215	309

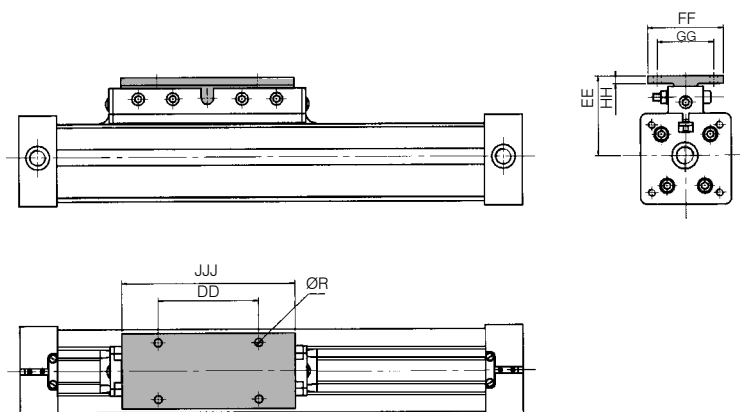
Nota :

Each carriage is independent, and the distance between them is determined by the application or to compensate for torques M_x and M_z .

The stroke and any increase in CL dimension should be added to the overall length of the cylinder.

Full dimensions see page 9.

Single T-carriage P1R-SXXXXM-XXXX

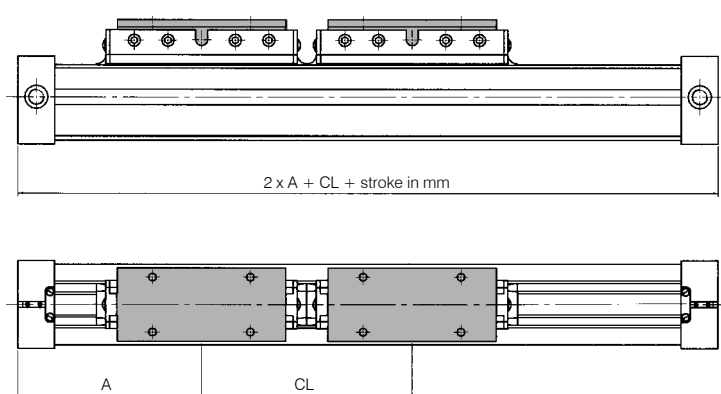


Dimensions (mm)

Ø	DD	EE	FF	GG	HH	JJJ	Ø R
25	76	43	51	38	5	109	5
32	114	54	63,5	48	5	149	6
40	80	63	60	45	6	139	6
50	130	74	80	60	7	201	8
63	130	83	80	60	7	209	8

Full dimensions see page 9.

Double T-carriage P1R-RXXXXM-XXXX



Dimensions (mm)

Ø	A	CL
25	100,5	131
32	126	175
40	151	210
50	170	251
63	215	309

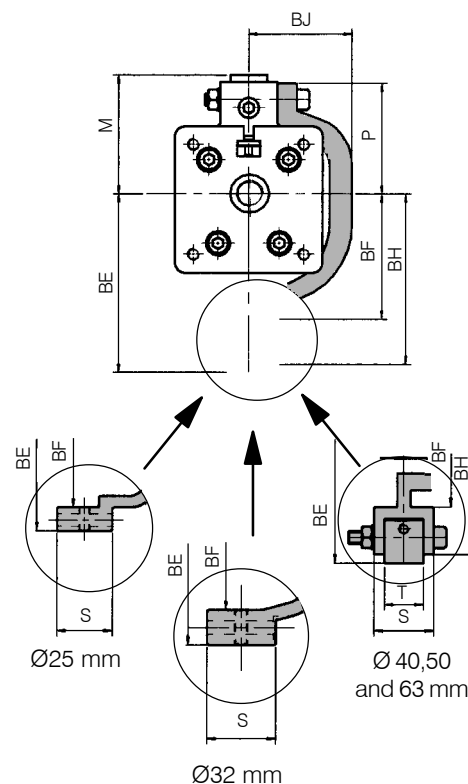
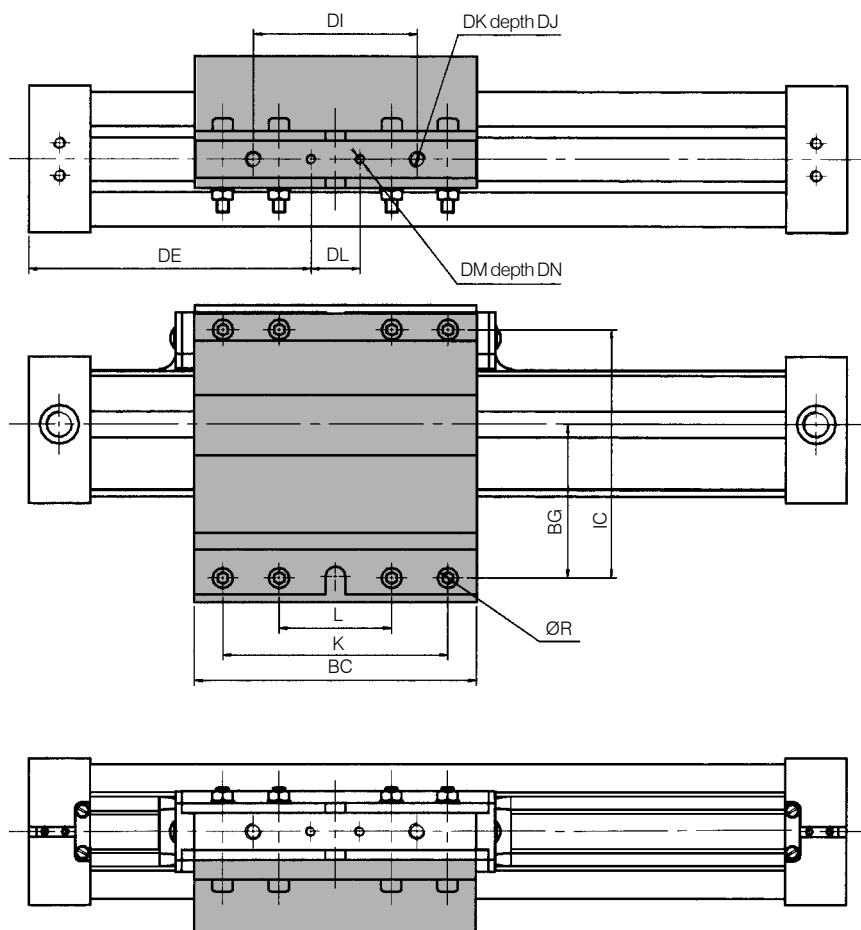
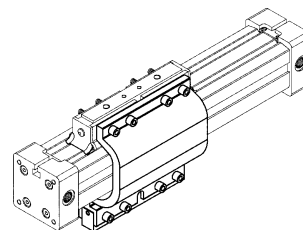
Nota :

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Full dimensions see page 9.

Single cantilever carriage P1R-SXXXXN-XXXX

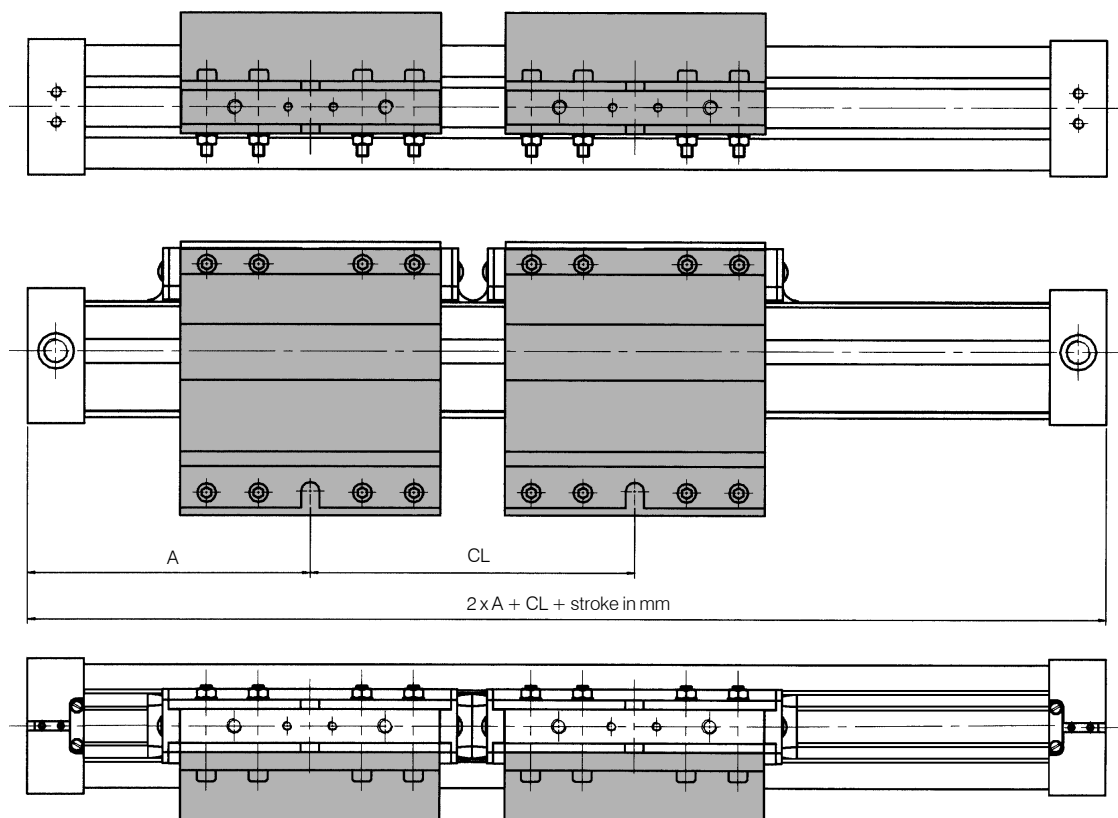
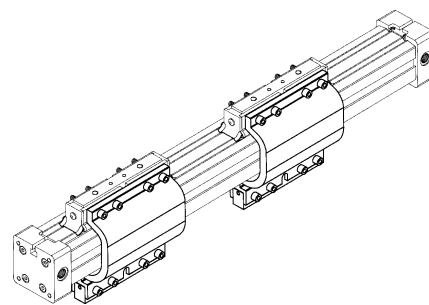


Dimensions (mm)

Ø	BC	BE	BF	BG	BH	BJ	DE	DI	DJ	DK	DL	DM	DN	IC	K	L	M	P	ØR	S	T
25	108	40	29	35	40	35	95	80	10	M5	24	M5	11	66	-	50	36,5	36,5	6	26	-
32	144	50	34	42	50	38	114	120	13	M6	24	M5	13	80	120	100	46	46	6	32	-
40	138	88	61	76	84	50,5	139	80	19	M8	24	M5	19	122	110	55	58	55	7	28	18
50	184	95	65	85	95	65	-	160	17	M8	-	-	-	137	140	95	62	62	9	34	19
63	208	124	89	109	119	77	-	140	22	M8	-	-	-	170	180	90	76	61	9	30	19

Full dimensions see page 9.

Double cantilever carriage P1R-RXXXXN-XXXX



Dimensions (mm)

Ø	A	CL
25	100,5	131
32	126	175
40	151	210
50	170	251
63	215	309

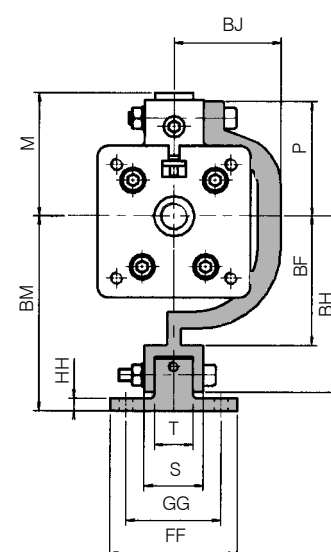
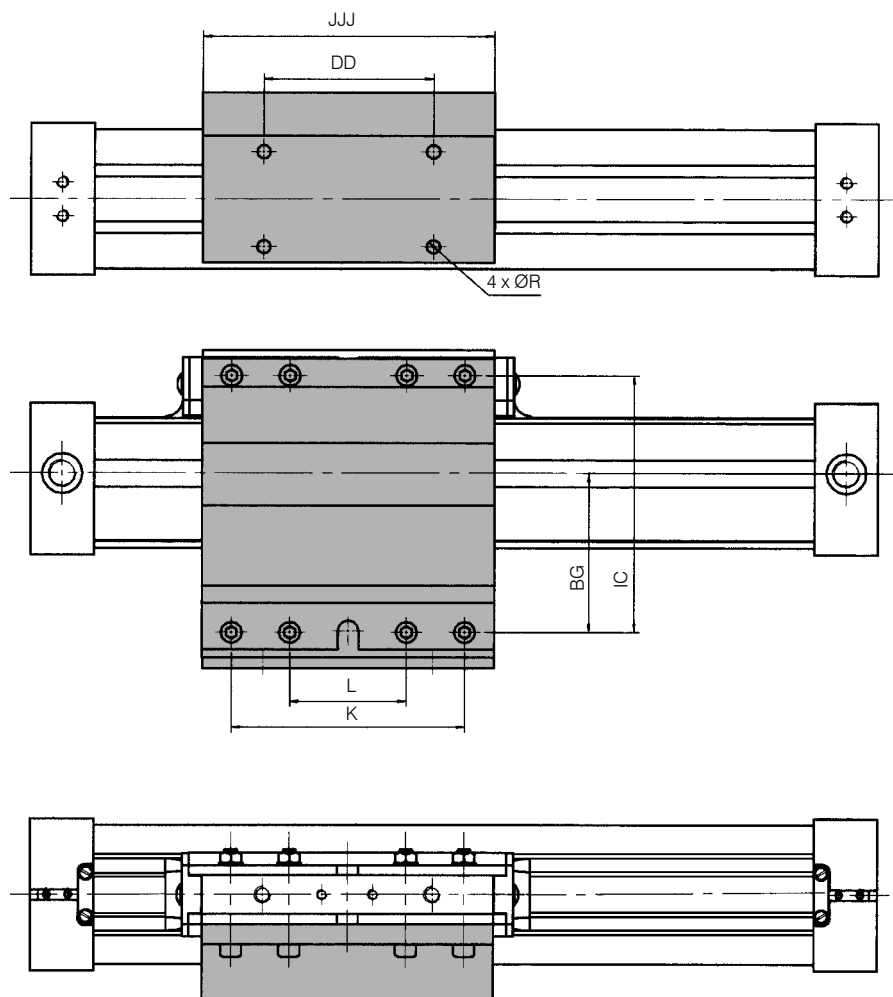
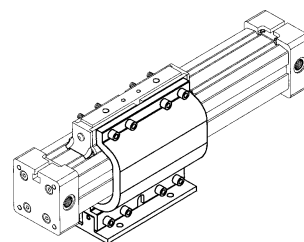
Nota :

Each carriage is independent, and the distance between them is determined by the application or to compensate for torques M_x and M_z .

The stroke and any increase in CL dimension should be added to the overall length of the cylinder.

Full dimensions see page 9.

Single cantilever T-carriage P1R-SXXXXP-XXXX

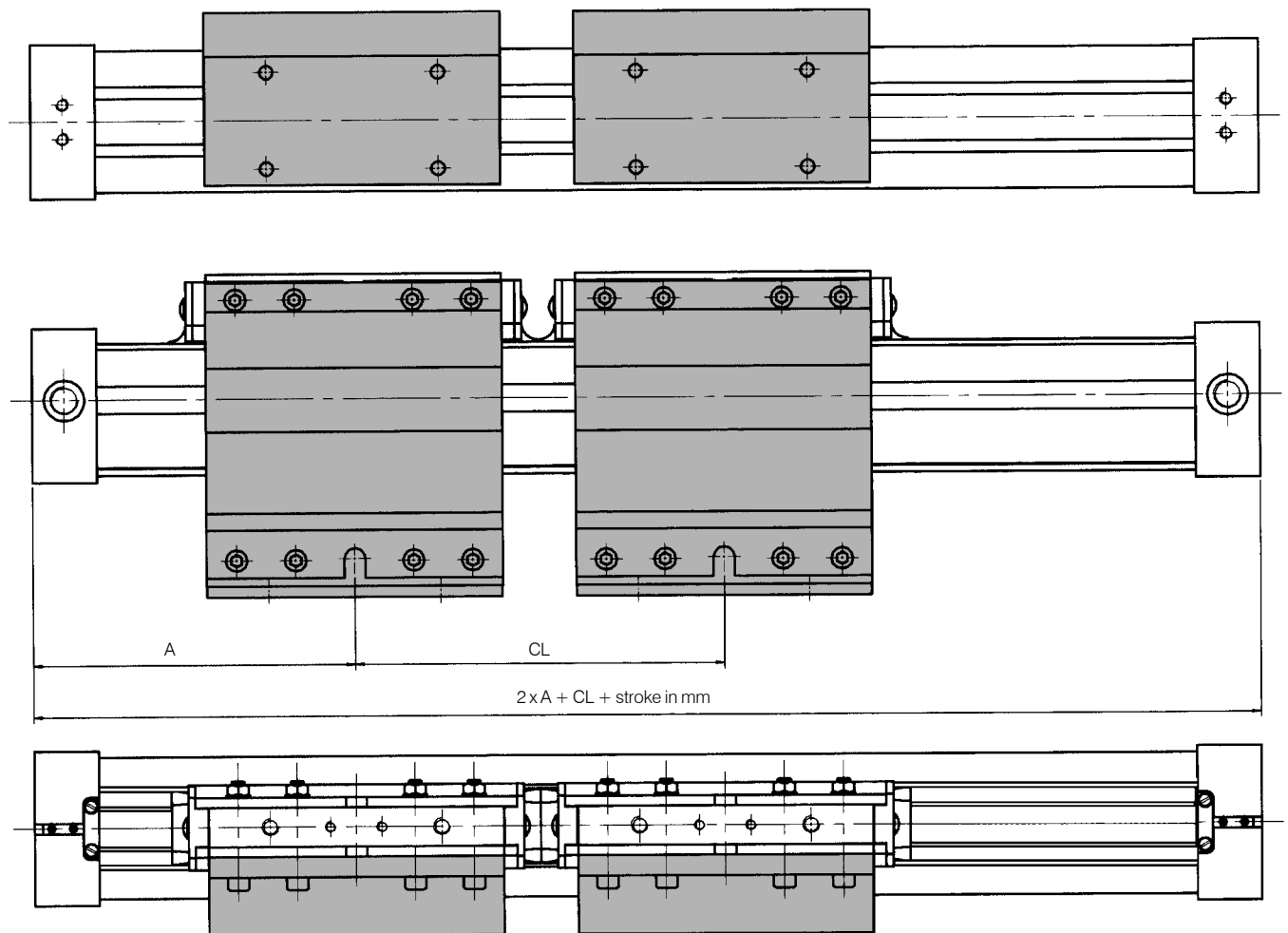


Dimensions (mm)

Ø	BF	BG	BH	BJ	BM	DD	FF	GG	HH	IC	JJJ	K	L	M	P	Ø R	S	T
40	61	76	84	50,5	93	80	60	45	6	122	138	110	55	58	55	6	28	18
50	65	85	95	65	106	130	80	60	7	137	200	140	15	62	62	8	34	19
63	89	109	119	77	130	130	80	60	7	170	208	180	90	76	61	8	30	19

Full dimensions see page 9.

Double cantilever T-carriage P1R-RXXXXP-XXXX



Dimensions (mm)

Ø	A	CL
40	151	210
50	170	251
63	215	309

Nota :

Each carriage is independent, and the distance between them is determined by the application or to compensate for torques M_x and M_z .

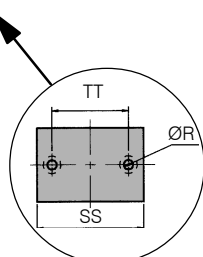
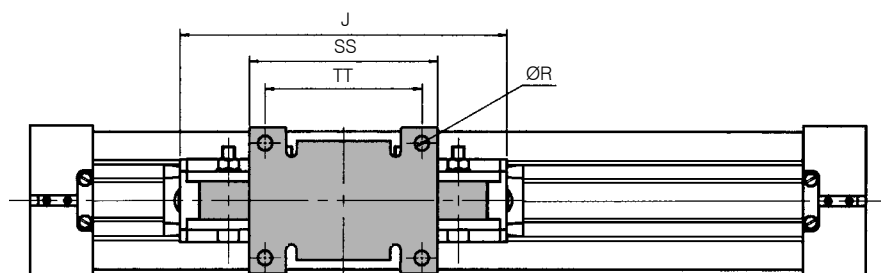
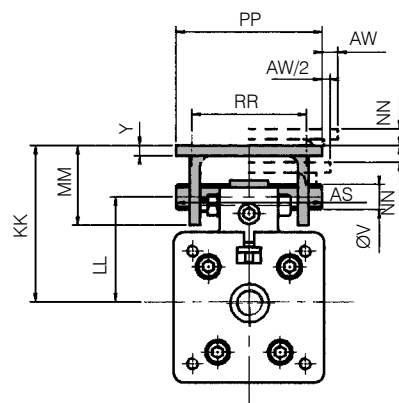
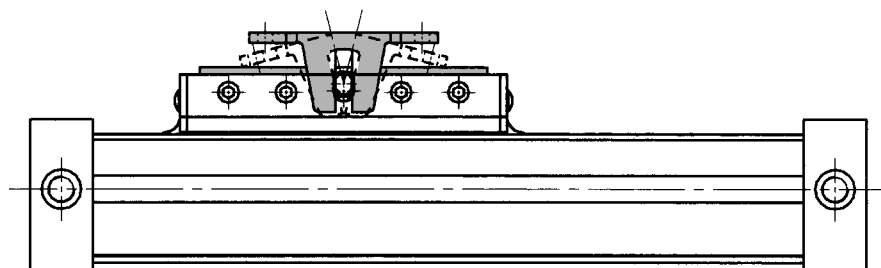
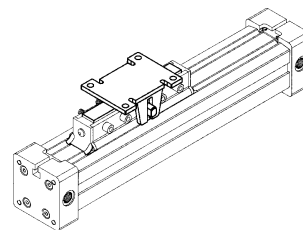
The stroke and any increase in CL dimension should be added to the overall length of the cylinder.

Full dimensions see page 9.

Single articulated carriage P1R-SXXXXQ-XXXX

The articulate plate, is a coupling designed to connect to a guide load when its displacement differs from the cylinder carriage displacement.

The articulated carriage is not positively secured.



Ø 16, 25, 32 and 50 mm

Dimensions (mm)

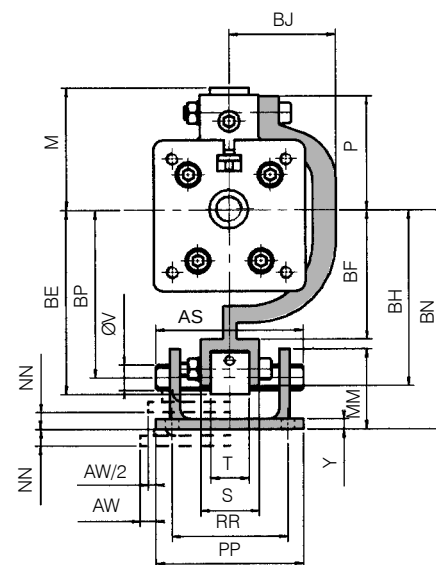
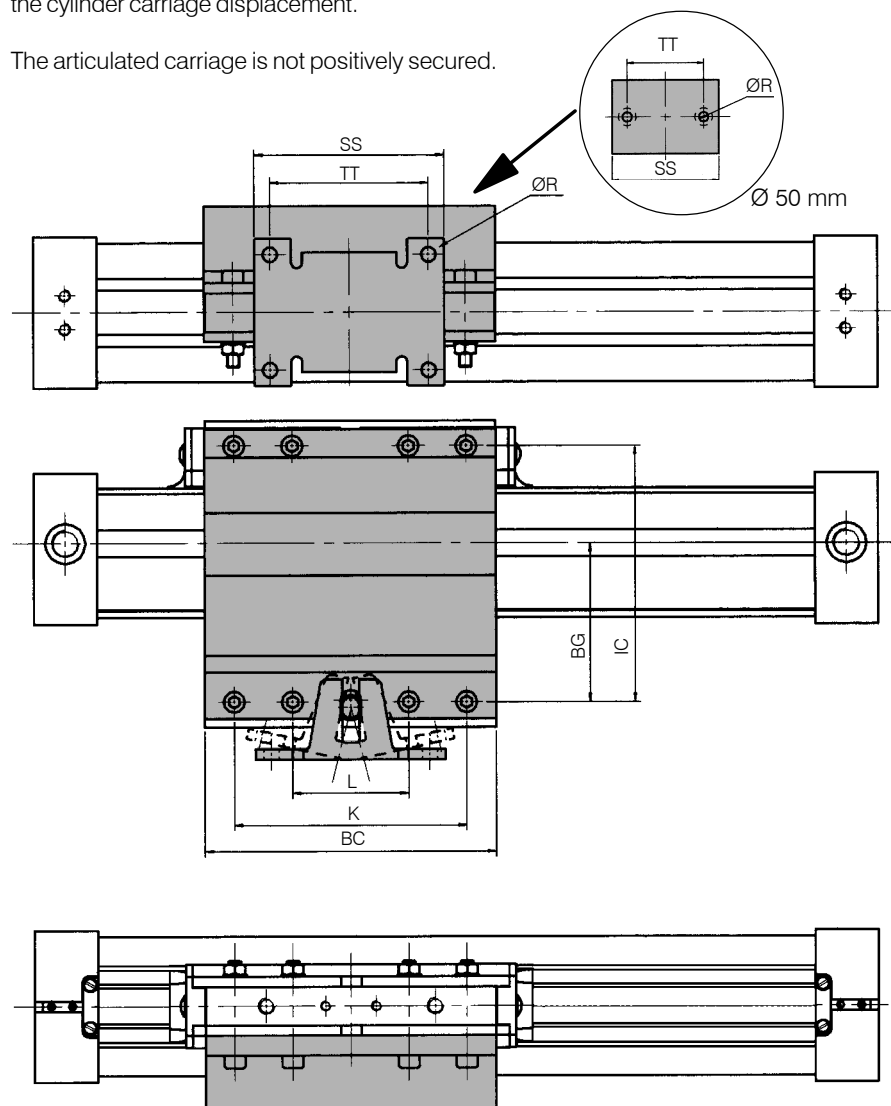
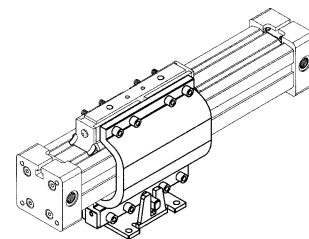
Ø	AS	AW	J	KK	LL	MM	NN	PP	ØR	RR	SS	TT	ØV	Y
16	28	± 1	76	32	23,5	12,5	± 4	25	5	-	20	10	5	2
25	42	± 1,5	127	51	36,5	20	± 3	37	4	-	32	16	8	3
32	58	± 4	167	67	46,5	30	± 6	48	6	-	70	50	12	4
40	70	± 5,5	157	71	48	38	± 9	70	6	55	90	75	12	5
50	72	± 6	219	90	62	43	± 9	58	9	-	100	80	16	5
63	82	± 8	227	94	65	44	± 9	90	9	70	120	100	16	6

Full dimensions see page 9.

Single articulated cantilever carriage P1R-SXXXXR-XXXX

The articulated plate, is a coupling designed to connect to a guide load when its displacement differs from the cylinder carriage displacement.

The articulated carriage is not positively secured.

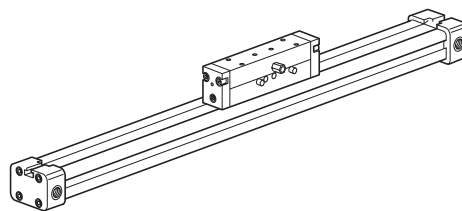


Dimensions (mm)

Ø	AS	AW	BC	BE	BF	BG	BH	BJ	BN	BP	IC	K	L	M
40	70	± 5,5	138	88	61	76	84	50,5	100,5	77,5	122	110	55	58
50	72	± 6	184	109	65	85	95	65	123	94,5	137	140	95	62
63	82	± 8	208	124	89	109	119	77	141	112	170	180	90	76

Ø	MM	NN	P	PP	Ø R	RR	S	SS	T	TT	Ø V	Y
40	38	± 9	55	70	6	55	28	90	18	75	12	5
50	43	± 9	62	58	9	-	34	100	19	80	16	5
63	44	± 9	61	90	9	70	30	120	19	100	16	6

- Safety brake
- Stops the load if air pressure failure occurs
- Integral part of carriage
- Same mounting facility as standard series



Specification

Material

Body	Hardened steel	Bore sizes	25, 32, 40 mm
End cover	Hardened steel		
Seals	Nitrile		
Brake pads	Ferrodo®		

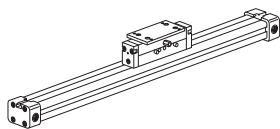
Operating information

Working pressure	5-8 bar
Working temperature	-10 °C to +75 °C
Function	Safety brake or parking brake

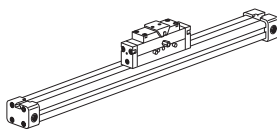
Options and additional information

Brake with T-carriage and brake with articulated carriage consult the Technical Sales

Brake with T-carriage

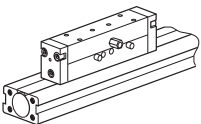


Brake with articulated carriage

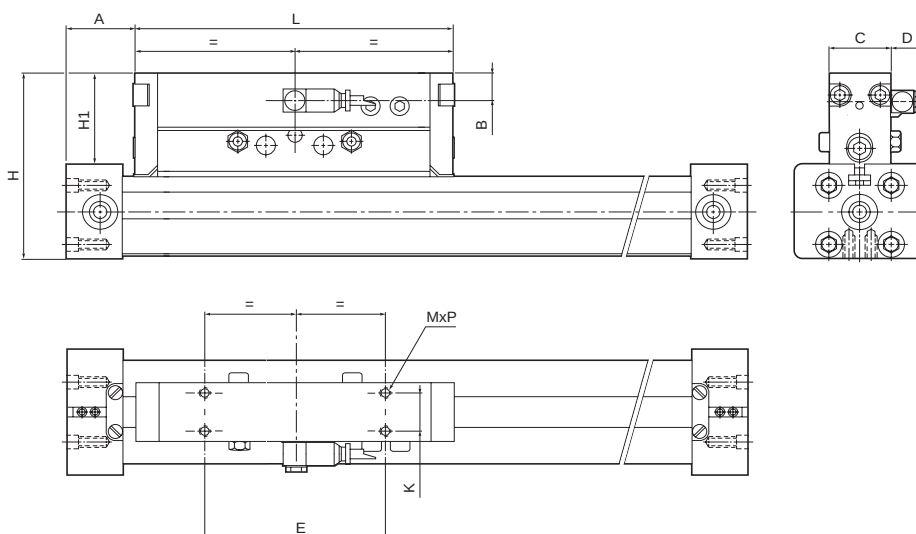


The brake is factory fitted
Please refer to order key

Main data for P1R Safety brake

Type	Cyl. bore "Push-in", Ø	Port size N	Clamping force kg	Weight	Order code
	25	4	230	0,85	Refer to order key page 20
	32	4	450	1,10	
	40	4	720	1,00	

Dimensions



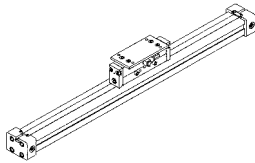
Ø	A	B	C	D	E	H	H1	L	K	MxP
25	29	12,6	27	20	80	84	41	142,5	18	M5x10
32	34	13,5	32	20	100	101	47	182,5	19,5	M6x13
40	63,5	13	32	20	80	112	50	172,5	24	M6x13

Mountings

All mountings or other options e.g. mid-position stop - from the rodless cylinder and carrier unit programme are compatible with the brake option with the exception of the T-carriage and articulated carriage. See diagrams below.

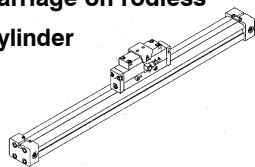
Mountings

Type	Material	Ø Cylinder (mm)	Weight (kg)	Order code
Brake with T-carriage on rodless cylinder		25	0,97	P1R-4JBB
		32	1,32	P1R-4KBB
		40	1,25	P1R-4LBB



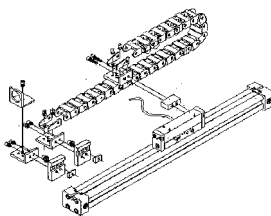
The T-carriage mounted with the brake on a rodless cylinder is different to the standard one as the anchor point has changed.

Brake with articulated carriage on rodless cylinder		25	0,95	P1R-4JBL
		32	1,32	P1R-4KBL
		40	1,37	P1R-4LBL



Accessories

Type	Material	Ø Cylinder (mm)	Weight (kg)	Order code
Rodless cylinder with brake and chain kit		25	0,55 (Add 0,012 per 30 mm of stroke)	P5K-C1B076-xxxx*
		32	0,55 (Add 0,012 per 30 mm of stroke)	P5K-C1B077-xxxx*
		40	0,75 (Add 0,034 per 46 mm of stroke)	P5K-C1B078-xxxx*

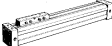


* Indicate rodless cylinder stroke in mm.

The brake fitted to the carriage is mobile in its environment. Consequently the pneumatic tube that powers the brake, moves alongside the cylinder. This could cause some concerns for long stroke applications. To prevent any interference due to the "running" tube, a chain kit is available for direct mounting.

Order code system

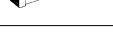
P1R - S 016 M 0 - 1000

Version	
S	Single carriage 
R	Double carriage 

Cylinder bore (mm)
016
025
032
040
050
063

Stroke (mm)
0100 = 100 mm
1000 = 1000 mm

Option	
M	Standard speed
K	Low speed
B	Brake + standard speed
D	Brake + low speed
P	Stainless steel screws + standard speed
J	Stainless steel screws + low speed

Type of carriage	
0	Basic carriage 
M	T-carriage (except Ø16 mm) 
N	Cantilever carriage (except Ø16 mm) 
P	Cantilever T-carriage (for Ø40 to 63 mm) 
Q	Articulated carriage (for Ø40 to 63 mm) (except double carriage) 
R	Cantilever articulated carriage (for Ø40 to 63 mm) (except double carriage) 

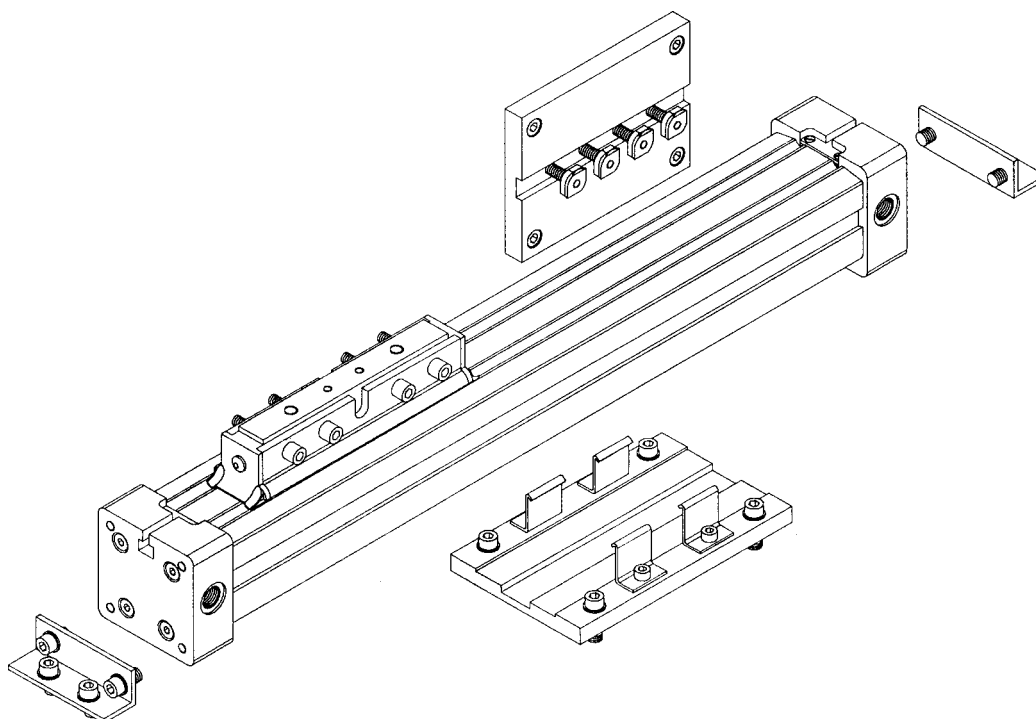
Nota :

All cylinders are equipped with 2 magnets for sensing.

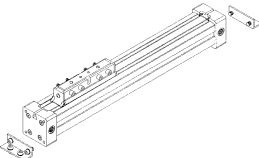
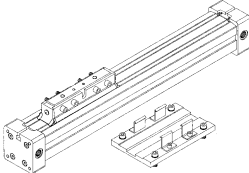
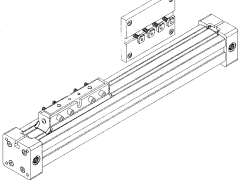
Ordering example: rodless cylinder, single carriage, standard speed with T-carriage Ø 40, stroke 1000 mm magnetic sensors and intermediate support.

Rodless cylinder : P1R-S040MM-1000 Qty : 1
Sensors : P8S-DRFLX Qty : 2
Side supports : P1R-4LMF Qty : 1

Mounting kits



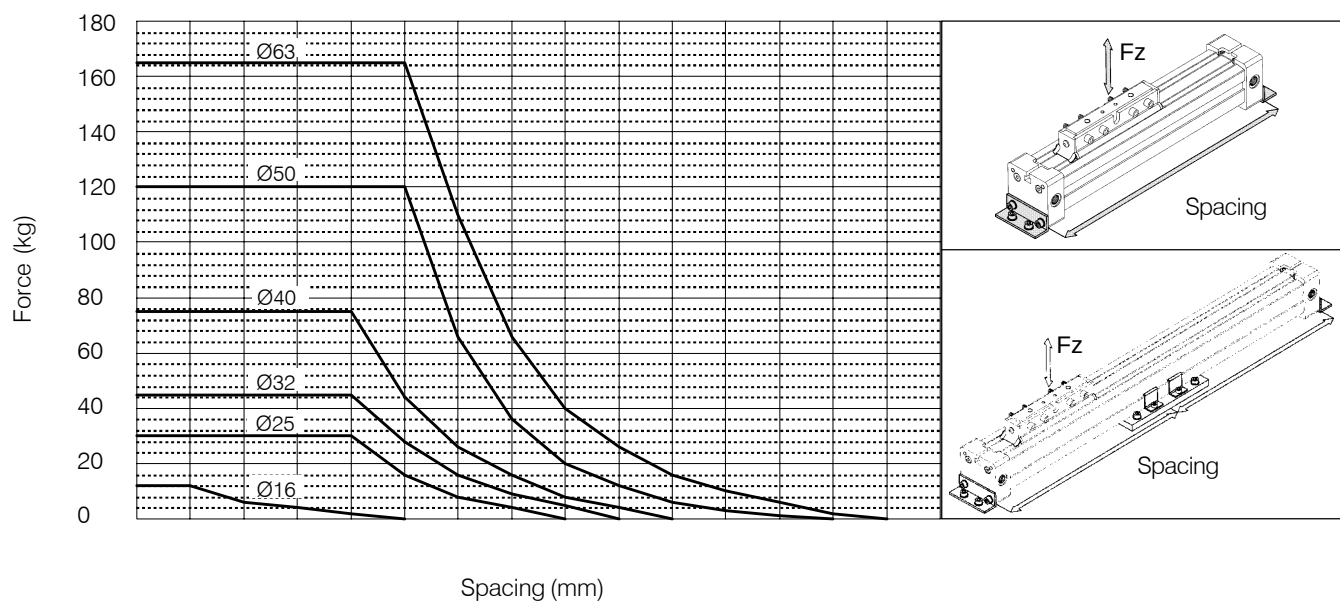
Mountings

Type	Material	Ø Cylinder (mm)	Weight (kg)	Order code	
				Stainless steel screw	Standard screw
Side support 	Black anodised aluminium for Ø40 and Ø63 Anti-corrosion steel brackets	16	0,04	P1R-4FPF	P1R-4FMF
		25	0,06	P1R-4JPF	P1R-4JMF
		32	0,10	P1R-4KPF	P1R-4KMF
		40	0,25	P1R-4LPF	P1R-4LMF
		50	0,35	P1R-4MPF	P1R-4MMF
		63	0,45	P1R-4NPF	P1R-4NMF
Intermediate support 	Black anodised aluminium + Anti-corrosion steel brackets	16	0,04	Not available	P1R-4FMX
		25	0,10	Not available	P1R-4JMX
		32	0,25	Not available	P1R-4KMX
		40	0,45	Not available	P1R-4LMX
		50	0,65	Not available	P1R-4MMX
		63	0,85	Not available	P1R-4NMX
Intermediate support 	Black anodised aluminium	25	0,15	Not available	P1R-4JMY
		30	0,30	Not available	P1R-4KMY
		40	0,50	Not available	P1R-4LMY
		50	0,70	Not available	P1R-4MMY
		63	0,90	Not available	P1R-4NMY

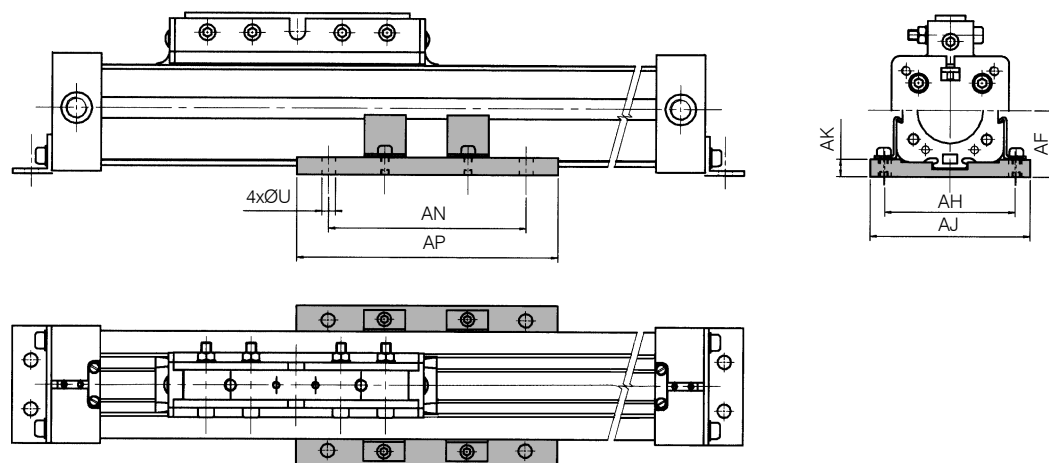
Mountings

Permissible flexing torques

(For 1 mm flex)



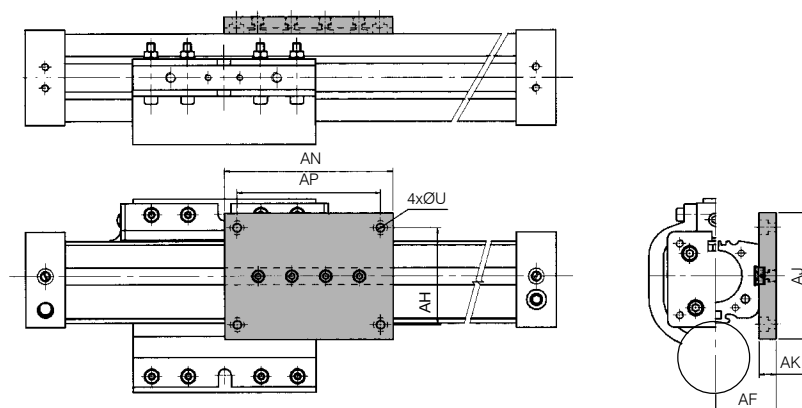
Intermediate supports



Dimensions (mm)

Ø	AF	AH	AJ	AK	AN	AP	ØU
16	14,5	46,5	58,5	5	-	20	5,5
25	25	60,5	76	6	32	51	5
32	38,5	68	86	12	44,5	63,5	6
40	40,5	80	98	11	121	160	8
50	54	92	111	15	121	160	8
63	64	111	130	14	121	160	8

Intermediate supports for cantilever carriages



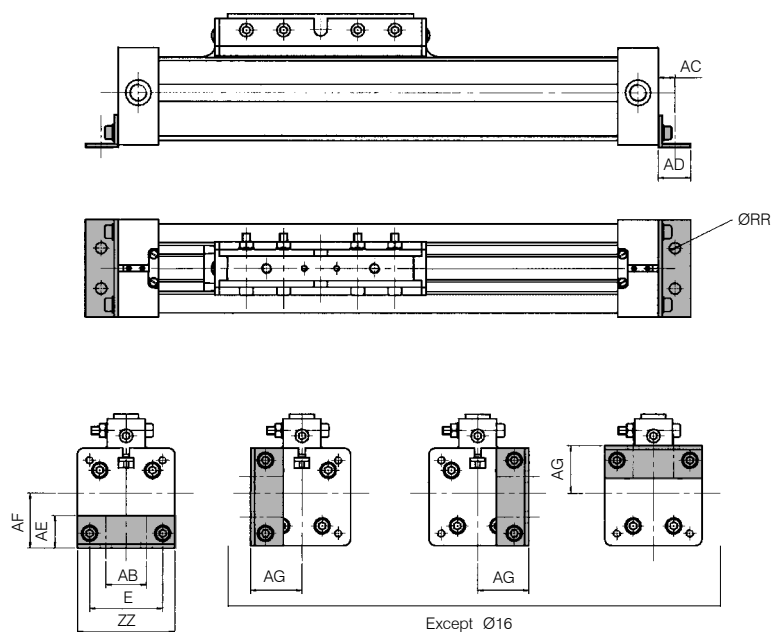
Dimensions (mm)

Ø	AF	AH	AJ	AK	AN	AP	ØU
25	37	60,5	79,5	13	76	57	6
32	39	73	95	13	127	108	6
40	46	73	95	13	127	108	6
50	51	95	121	13	130	108	8
63	60	105	137	13	130	108	8

Nota :

For strokes > 500 mm, at least 2 side supports are advisable.

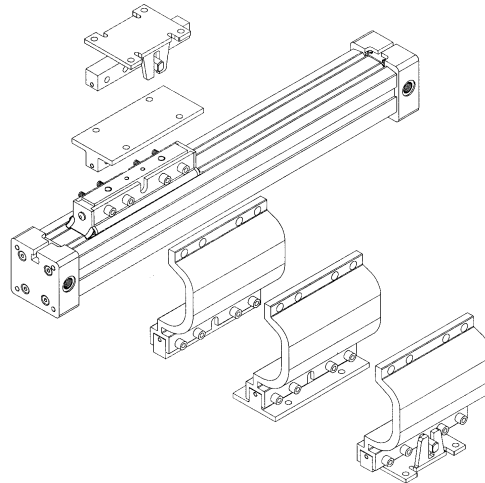
Side supports



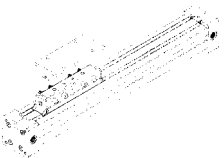
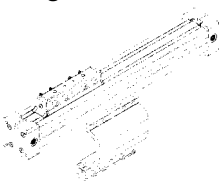
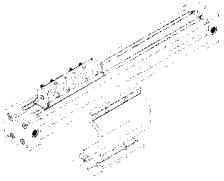
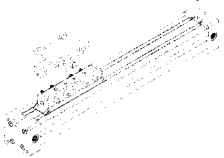
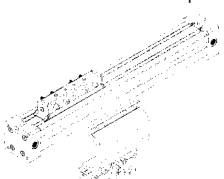
Dimensions (mm)

Ø	AB	AC	AD	AE	AF	AG	E	ØRR	ZZ
16	18	10	14,5	12,5	14,5	-	17	4	32
25	27	16	22	18	25	29,5	27	6	39
32	36	12	20	26	38,5	30 or 36	36	7	50
40	30	12,5	24	24	40,5	38 or 40	54	8	72
50	54	18	28	34	54	45 or 51	54	9	76
63	48	15	30	40	64	57,5 or 60	78	10	106

Accessories



Mountings

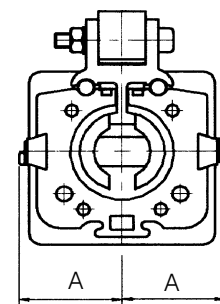
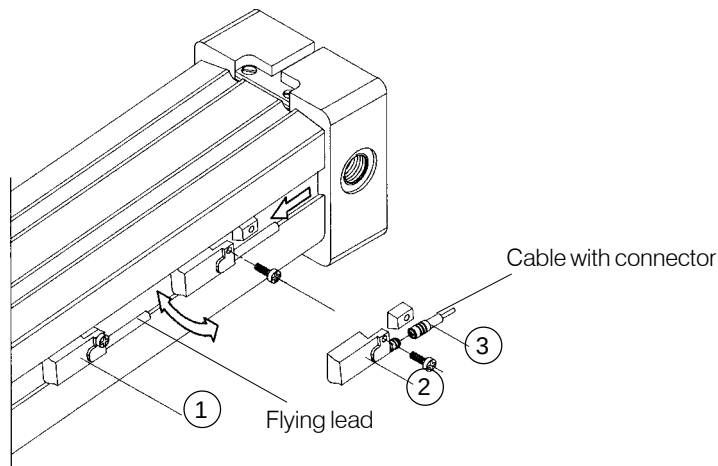
Type	Material	Ø Cylinder (mm)	Weight (kg)	Order code	
				Stainless steel screws	Standard screws
T-carriage 	Black anodised aluminium	25	0,12	P1R-4JMB	
		32	0,24	P1R-4KMB	
		40	0,25	P1R-4LMB	
		50	0,35	P1R-4MMB	
		63	0,40	P1R-4NMB	
		Note ! One to be ordered for each carriage			
Cantilever carriage 	Black anodised aluminium	25	0,24	P1R-4JMQ	
		32	0,43	P1R-4KMQ	
		40	0,84	P1R-4LPQ	P1R-4LMQ
		50	1,00	P1R-4MPQ	P1R-4MMQ
		63	1,10	P1R-4NPQ	P1R-4NMQ
		Note ! One to be ordered for each carriage			
Cantilever T-carriage 	Black anodised aluminium	40	1,00	P1R-4LPW	P1R-4LMW
		50	1,25	P1R-4MPW	P1R-4MMW
		63	1,40	P1R-4NPW	P1R-4NMW
		Note ! One to be ordered for each carriage			
Articulated carriage Black anodised aluminium + folded, hot-dip galvanized sheet steel plate 		16	0,08	P1R-4FPL	P1R-4FML
		25	0,10	P1R-4JPL	P1R-4JML
		32	0,22	P1R-4KPL	P1R-4KML
		40	0,37	P1R-4LPL	P1R-4LML
		50	0,60	P1R-4MPL	P1R-4MML
		63	0,70	P1R-4NPL	P1R-4NML
		Note ! One to be ordered for each carriage			
Articulated cantilever carriage Black anodised aluminium + folded, hot-dip galvanized sheet steel plate 		40	1,12	P1R-4LPU	P1R-4LMU
		50	1,50	P1R-4MPU	P1R-4MMU
		63	1,70	P1R-4NPU	P1R-4NMU
		Note ! The articulated carriage is not positively secured			

Position sensing

One or more additional sensor(s) or detector(s) can be added for position detection along length of stroke.

Dovetail attachment

Sensor or detector can be adjusted along length of stroke.



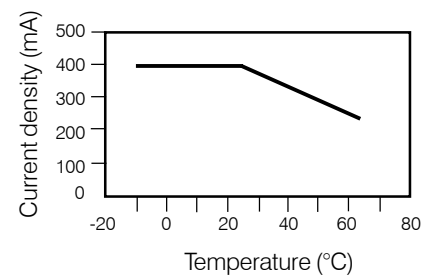
Characteristics

Specification	Orders codes			
	P8S-DRFLX	P8S-DRSHX	P8S-DPFLX	P8S-DPSXH
Weight	55g	2g	61g	4g
Cable length	3m		3m	
Working temperature	- 10°C to + 70°C			
Protection	IP67	IP65	IP67	IP65
Frequency	50 to 1000Hz			
Reponse time, opening	1 ms	1 ms	0,01 ms	0,01 ms
Reponse time, closing	1 ms	1 ms	0,01 ms	0,01 ms
Service life	10 ⁷ cycles		N/A	
Repeatability	± 0,01 mm			
Type	Magnetic sensors		Magnetic induction sensors, PNP	
Contacts	NO	NO	NO	NO
Max. current	180mA		See note opposite	
Max. power	10W		12W	
Voltage 50 Hz max.	110 AC	60AC	Ñ-	Ñ-
Max. working voltage	110 AC	60AC	10 to 28 DC	
Max. voltage drop	2,8 V		1V	
Cable specification	2-core 0,2 mm² PVC Artic grade	Connector 7121 1001-95	3-core 0,2 mm² PVC Artic grade	Connector 7121 1001-95
Cable diameter	4 mm	–	4 mm	–
Housing cable	Black Nylon 66			
Red LED	Standard			
Supplementary information			Polarity reversal protection Diode protected output	

Dimensions (mm)

Ø	16	25	32	40	50	63
A	22	31	33,5	40	45	55

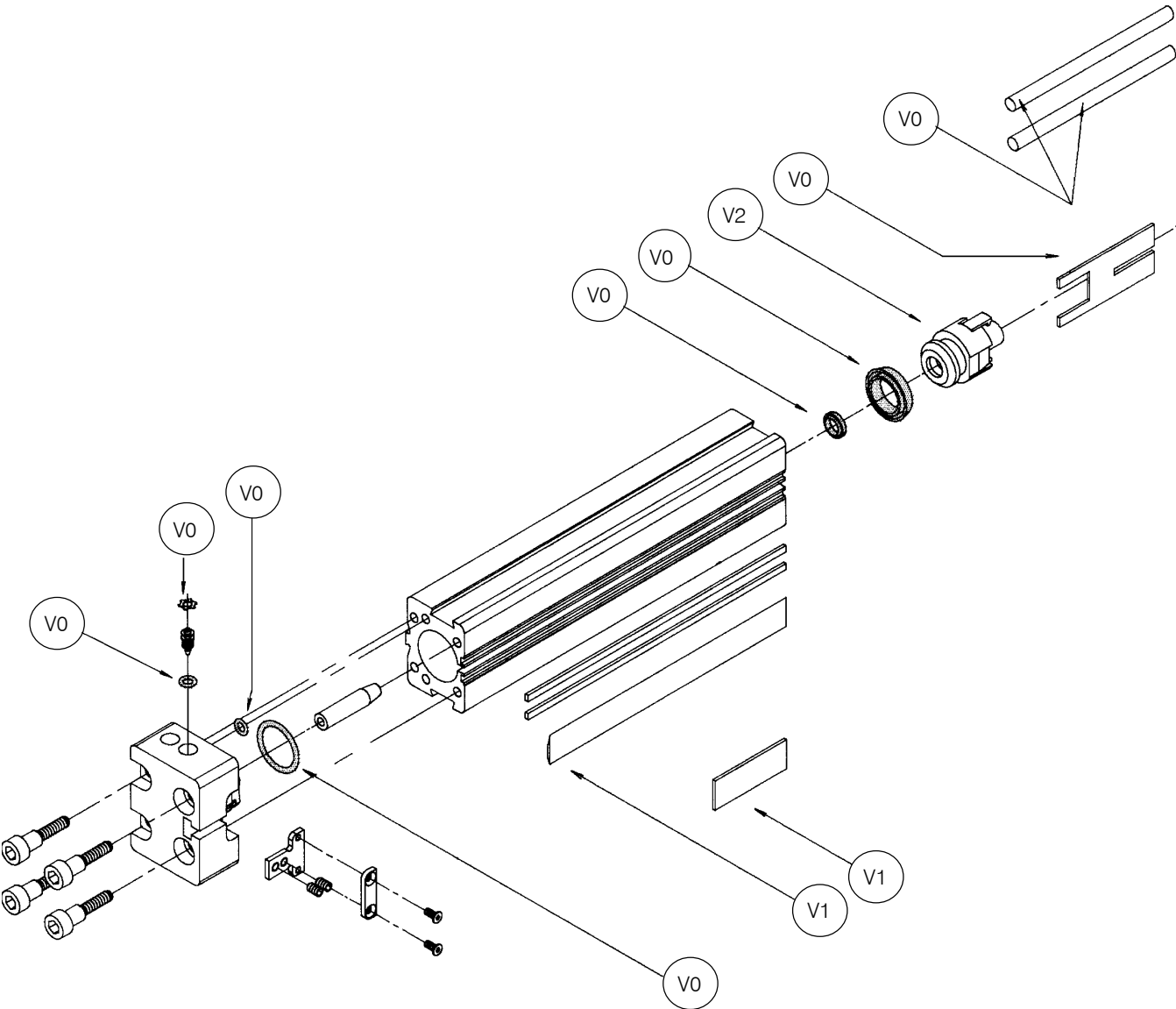
Current variations as a function of temperature



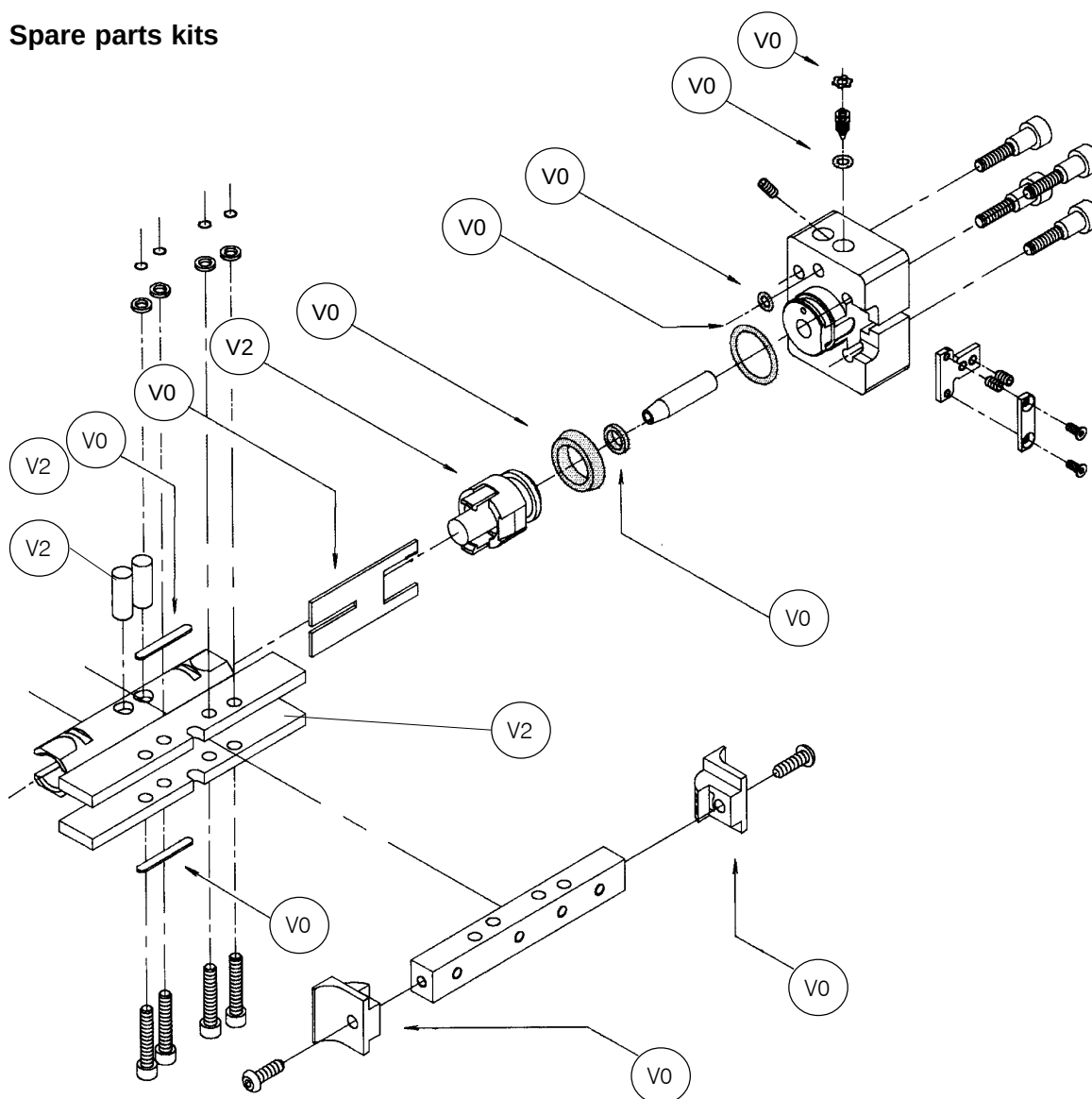
Between 20°C and 70°C, linear current fall-off from 400 mA to 250 mA.

Grease

Option		Order code	Package
Standard speed	M	9880003	35 ml
Low speed	K	9880002	35 ml



Spare parts kits



Kits and foils

Ø	Single carriage or double carriage			
	Seal kit		Marked	
16	P1R-6FRM		V ₀	
25	P1R-6JRM			
32	P1R-6KRM			
40	P1R-6LRM			
50	P1R-6MRM			
63	P1R-6NRM			
Foil (inner and outer band)				
	Single carriage	Marked	Double carriage	Marked
16	P1R-6FRA - XXXX*	V ₁	P1R-6FRB - XXXX*	V ₁
25	P1R-6JRA - XXXX*		P1R-6JRB - XXXX*	
32	P1R-6KRA - XXXX*		P1R-6KRB - XXXX*	
40	P1R-6LRA - XXXX*		P1R-6LRB - XXXX*	
50	P1R-6MRA - XXXX*		P1R-6MRB - XXXX*	
63	P1R-6NRA - XXXX*		P1R-6NRB - XXXX*	

* Specify stroke in mm

Spare part kit containing carriage/piston assembly, with magnets and spacer

Ø	Order code	Marked
16	P1R-6FPE-0	V ₂
25	P1R-6JPE-2	
32	P1R-6KPE-2	
40	P1R-6LPE-2	
50	P1R-6MPE-2	
63	P1R-6NPE-2	