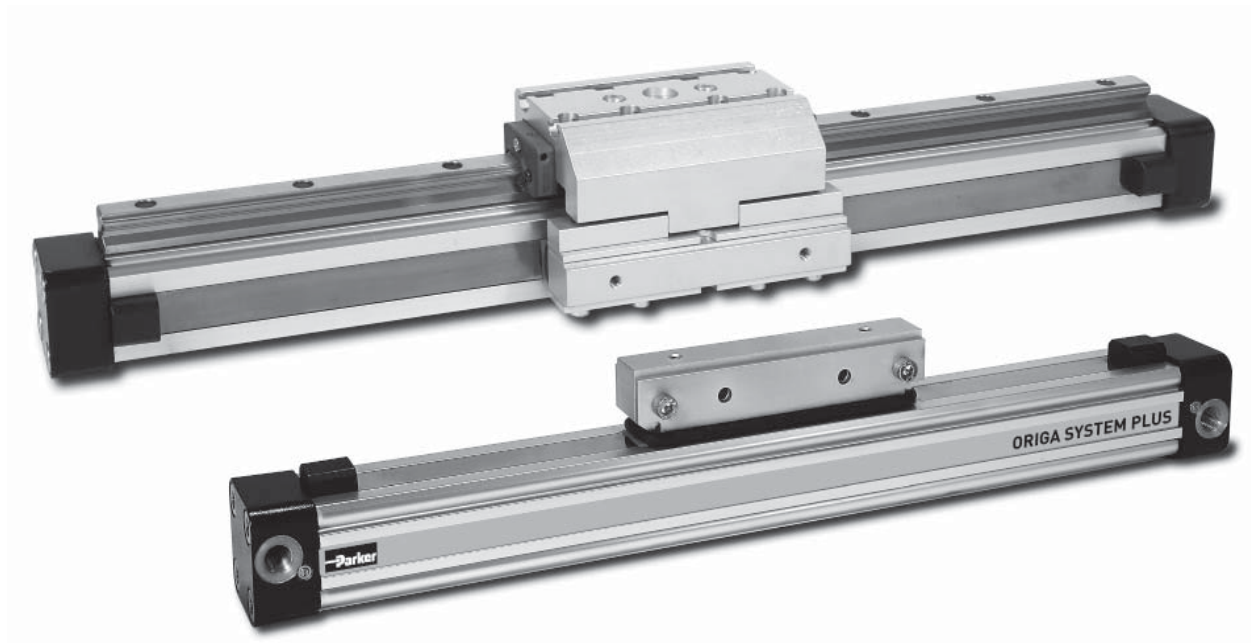




OSPP-Classic

ORIGA SYSTEM PLUS

P-A4P027GB 05/2018



ENGINEERING YOUR SUCCESS.

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Linear Drives

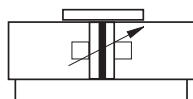


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Rodless Pneumatic Cylinder OSPP-Classic

ø 16-80 mm

Series OSPP .. -C

**Standard Versions**

- Double-acting with adjustable end cushioning.
- With magnetic piston for position sensing.

Special Versions:

- Stainless steel screws
- Slow speed lubrication
- Viton® seals
- Air connection on the end-face
- Both air connections on one end
- Integrated Valves VOE

Characteristics			Pressures quoted as gauge pressure		
Characteristics		Symbol	Unit	Description	
General Features					
Type				Rodless cylinder	
Series				OSPP-C	
System				Double-acting, with cushioning, position sensing capability	
Mounting				See drawings	
Air Connection				Threaded	
Ambient temperature range		T _{min} T _{max}	°C °C	-10 +80	Other temperature ranges on request
Weight (mass)			kg	See table below	
Installation				In any position	
Medium				Filtered, unlubricated compressed air (other media on request)	
Lubrication				Permanent grease lubrication (additional oil mist lubrication not required) Option: special slow speed grease	
Material	Cylinder Profile				Anodized aluminium
	Carrier (piston)				Anodized aluminium
	End caps				Aluminium, lacquered
	Sealing bands				Corrosion resistant steel
	Seals				NBR (Option: Viton®)
	Screws				Galvanized steel Option: stainless steel
	Dust covers, wipers				Plastic
Max. operating pressure		p _{max}	bar	8	

Weight (mass) [kg]

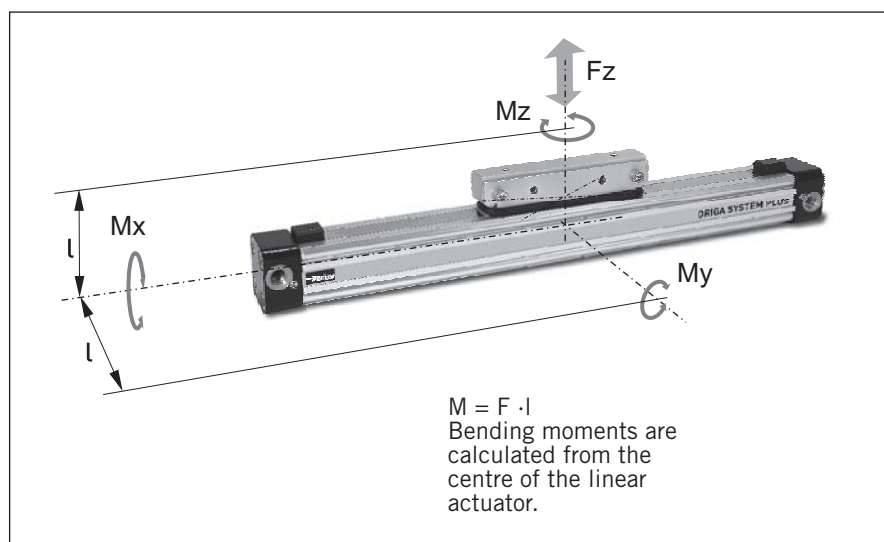
Series (Basic cylinder)	Weight (mass) [kg]	
	at 0 mm stroke	per 100 mm stroke
OSPP16-C	0.25	0.1
OSPP25-C	0.74	0.197
OSPP32-C	1.62	0.354
OSPP40-C	2.10	0.415
OSPP50-C	3.74	0.566
OSPP63-C	6.12	0.925
OSPP80-C	12.42	1.262

Size Comparison

D16	D25	D32	D40	D50	D63	D80



- End cap can be rotated 4 x 90° to position air connection as desired
- Free choice of stroke length up to 6000 mm, longer strokes on request.



Loads, Forces and Moments

Choice of cylinder is decided by:

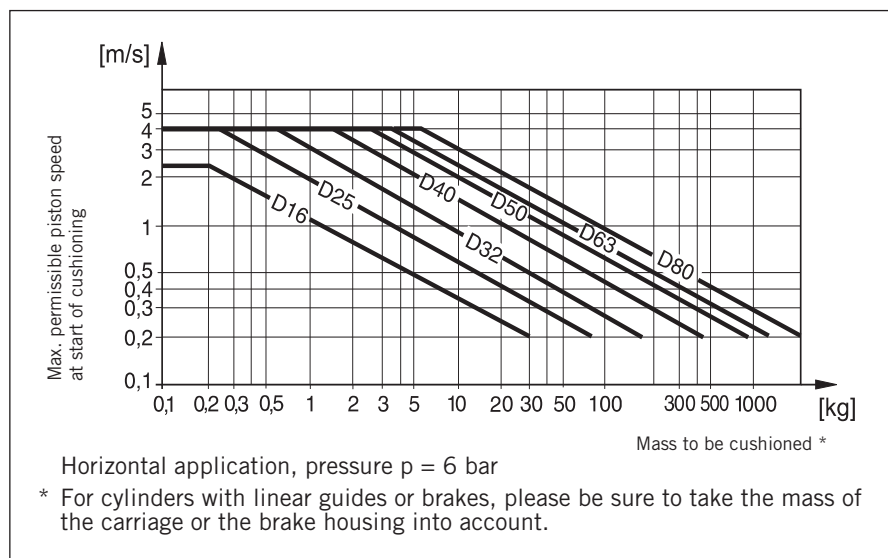
- Permissible loads, forces and moments
- Performance of the pneumatic end cushions. The main factors here are the mass to be cushioned and the piston speed at start of cushioning (unless external cushioning is used, e. g. hydraulic shock absorbers).

The adjacent table shows the maximum values for light, shock-free operation, which must not be exceeded even in dynamic operation.

Load and moment data are based on speeds $v \leq 0.5$ m/s.

When working out the action force required, it is essential to take into account the friction forces generated by the specific application or load.

Cylinder-Series [mm Ø]	Theoretical Action Force F_A at 6 bar [N]	Effective Action Force F_A at 6 bar [N]	max. Moments			max. Load F_z [N]	Cushion Length [mm]
			M_x [Nm]	M_y [Nm]	M_z [Nm]		
OSPP16-C	120	78	0.3	4	0.5	120	11
OSPP25-C	295	250	1.0	15	3	300	17
OSPP32-C	483	420	2.0	30	5	450	20
OSPP40-C	754	640	4.0	60	8	750	27
OSPP50-C	1178	1000	7.0	115	15	1200	30
OSPP63-C	1870	1550	8.0	200	24	1650	32
OSPP80-C	3016	2600	16.0	360	48	2400	39



Cushioning Diagram

Work out your expected moving mass and read off the maximum permissible speed at start of cushioning.

Alternatively, take your desired speed and expected mass and find the cylinder size required.

Please note that piston speed at start of cushioning is typically ca. 50 % higher than the average speed, and that it is this higher speed which determines the choice of cylinder. If these maximum permissible values are exceeded, additional shock absorbers must be used.

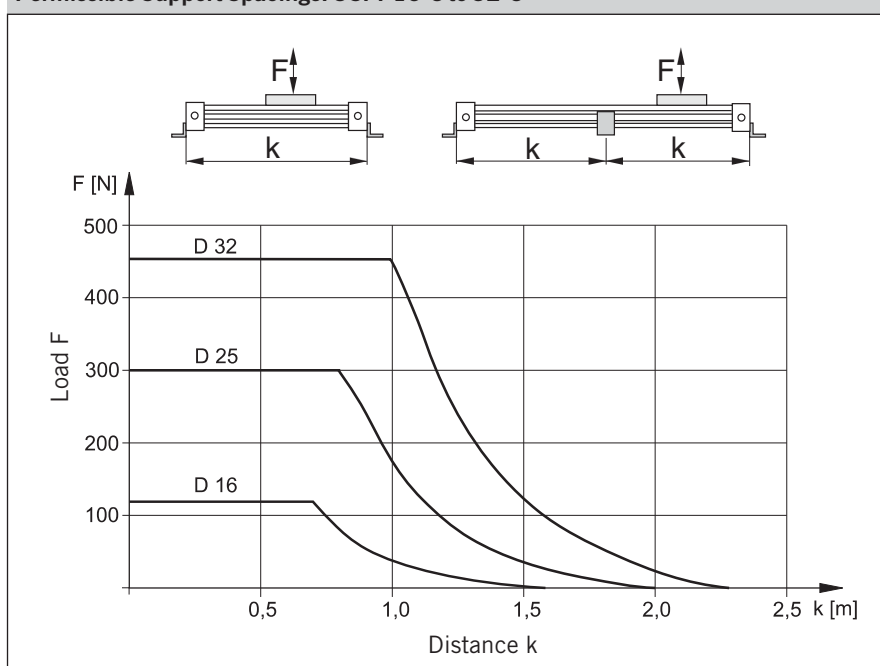
Mid-Section Supports

To avoid excessive bending and oscillation of the cylinder, mid-section supports are required dependent on specified stroke lengths and applied loads. The diagrams show the maximum possible support spacings depending on the load.

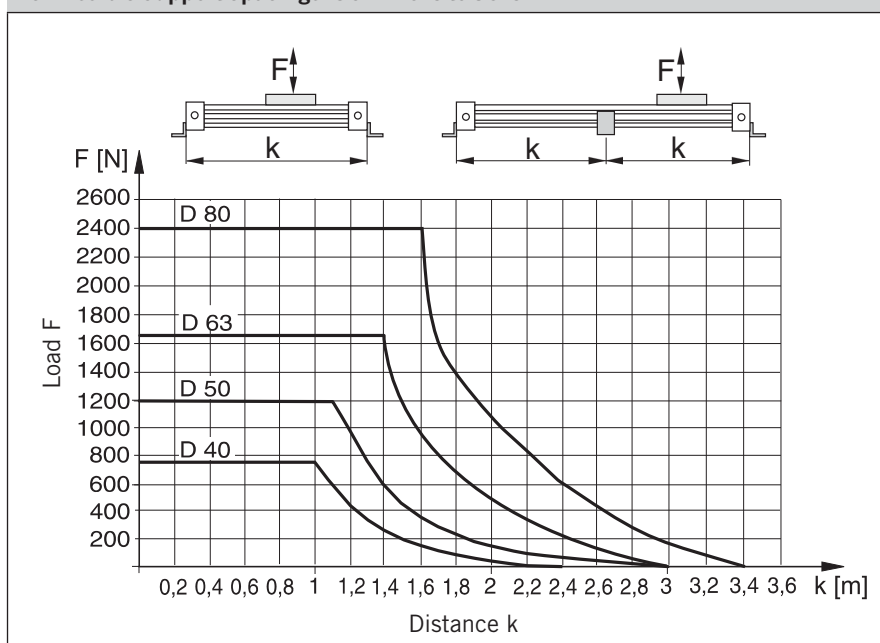
Bending up to max. 0.5 mm is permissible between supports. The mid-section supports are clamped on to the dovetail profile of the cylinder tube. They are also able to take the axial forces.

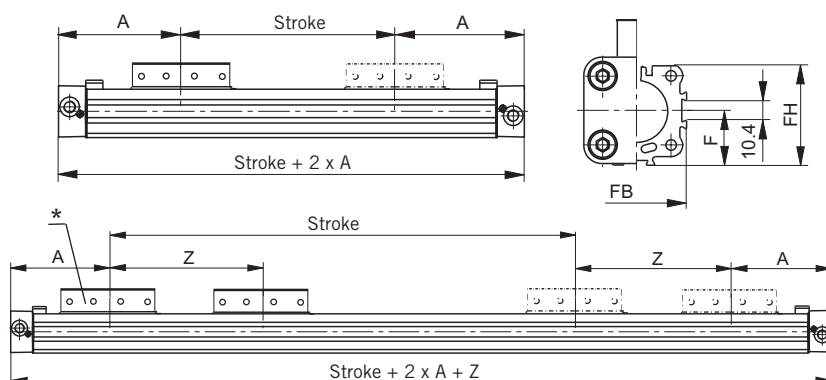
For types and dimensions see page 23.

Permissible Support Spacings: OSPP16-C to 32-C



Permissible Support Spacings: OSPP40-C to 80-C



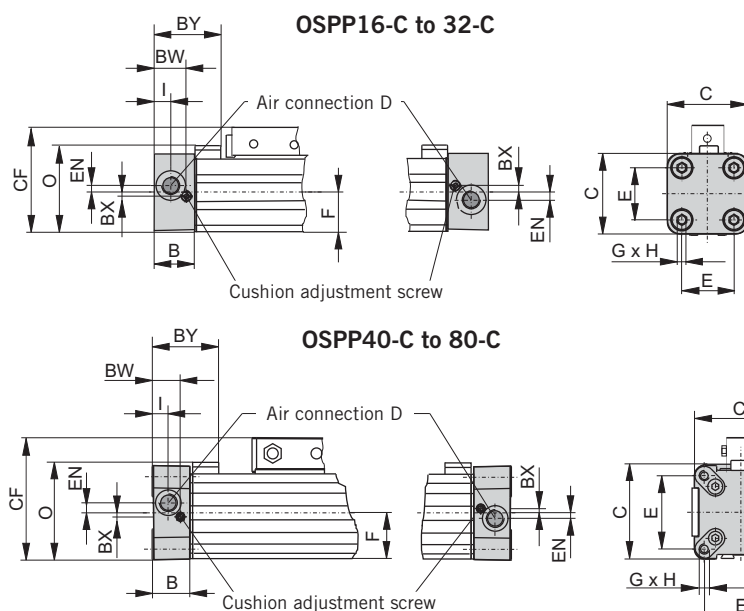
Dimensions of Basic Cylinder OSPP16-C to 80-C**Cylinder Stroke and Dead Length A**

- Free choice of stroke length up to 6000 mm in 1 mm steps.
- Longer strokes on request.

Tandem Cylinder

Two pistons are fitted: dimension "Z" is optional. (Please note minimum distance "Z_{min}").

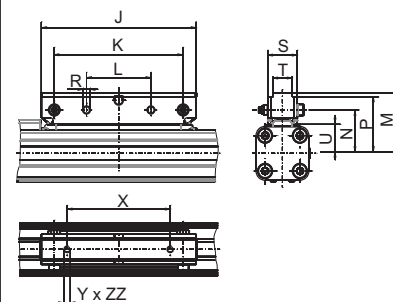
- Free choice of stroke length up to 6000 mm in 1 mm steps.
- Longer strokes on request.
- **Stroke length to order is stroke + dimension "Z".**

End Cap/Air Connection can be rotated 4 x 90° Series OSPP16-C to 80-C

Please note:

To avoid multiple actuation of magnetic switches, the second piston is not equipped with magnets.

* Piston with magnet

Carrier Series OSPP16-C to 80-C**Dimension Table [mm]**

Series	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
OSPP16-C	65	14	30	M5	18	15	M3	9	5.5	76	64	32	30	24	33.2
OSPP25-C	100	22	41	G1/8	27	21.5	M5	15	9	120	100	50	46	33	47
OSPP32-C	125	25.5	52	G1/4	36	28.5	M6	15	11.5	160	120	60	60	46	59
OSPP40-C	150	28	69	G1/4	54	34	M6	15	12	150	110	55	61	49	72
OSPP50-C	175	33	87	G1/4	70	43	M6	15	14.5	180	140	70	69	57	86
OSPP63-C	215	38	106	G3/8	78	54	M8	21	14.5	220	180	90	83	68	107
OSPP80-C	260	47	132	G1/2	96	67	M10	25	22	280	240	120	101	83	133

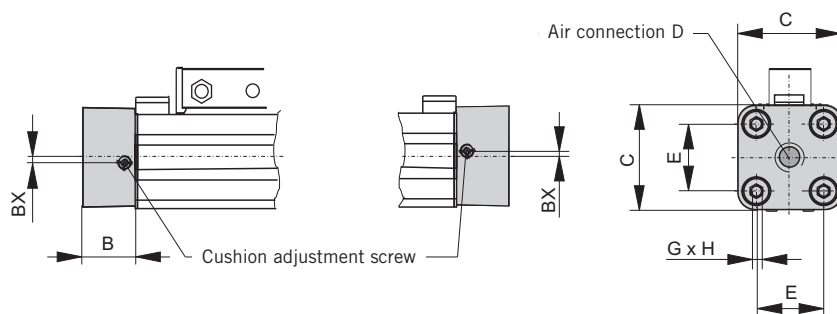
Series	P	R	S	T	U	X	Y	Z _{min}	CF	BW	BX	BY	EN	FH	ZZ
OSPP16-C	29	4.5	18	10	17	48	M4	81	45	10.8	1.8	28.4	3	27.2	8
OSPP25-C	43	5.5	23	15	22.5	80	M5	128	67.5	17.5	2.2	40	3.6	39.5	10
OSPP32-C	54.3	7	27	18	28.5	90	M6	170	88.3	20.5	2.5	44	5.5	51.7	15
OSPP40-C	56.8	7	28	18	35	90	M6	212	95.3	21	3	54	7.5	63	12
OSPP50-C	65	7	28	18	40	110	M6	251	112.5	27	-	59	11	77	12
OSPP63-C	77.8	9	30	19	50	140	M8	313	136.8	30	-	64	12	96	16
OSPP80-C	95	11	32	20	57	180	M10	384	168	37.5	-	73	16.5	122	20

Air Connection on the End-face

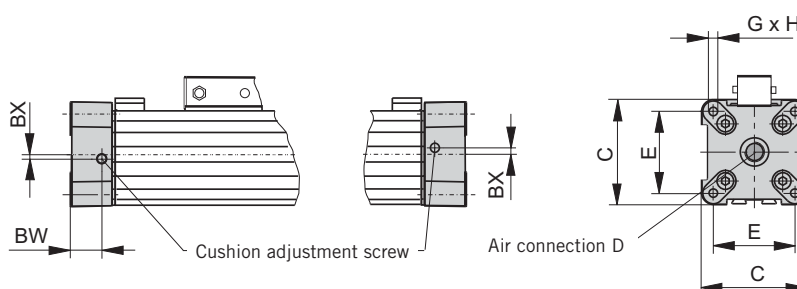
In some situations it is necessary or desirable to fit a special end cap with the air connection on the end-face instead of the standard end cap with the air connection on the side. The special end cap can also be rotated 4 x 90° to locate the cushion adjustment screw as desired. Supplied in pairs.



Series OSPP16-C to 32-C

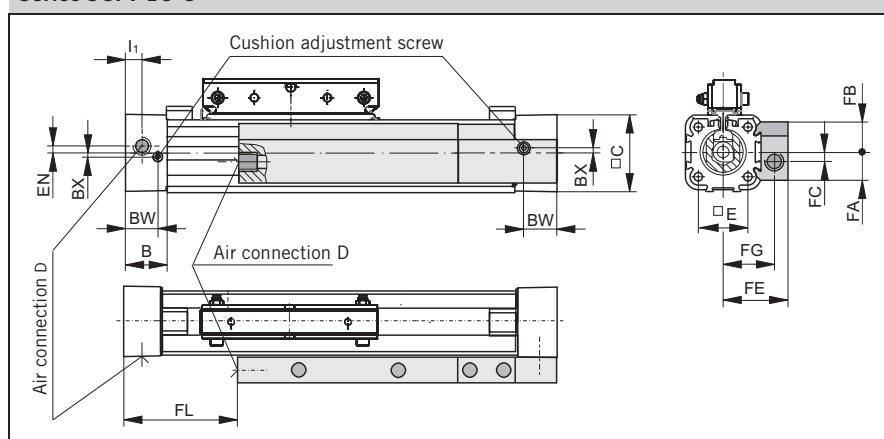


Series OSPP40-C to 80-C



Dimension Table [mm]

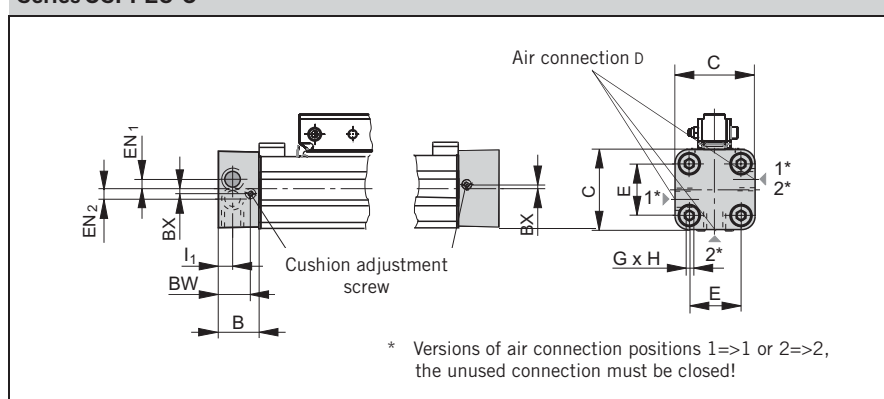
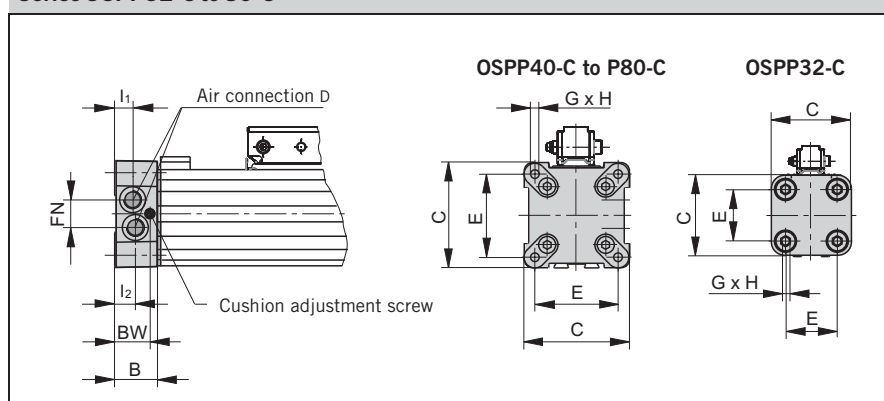
Series	B	C	D	E	G	H	BX	BW
OSPP16-C	14	30	M5	18	M3	9	1.8	10.8
OSPP25-C	22	41	G1/8	27	M5	15	2.2	17.5
OSPP32-C	25.5	52	G1/4	36	M6	15	2.5	20.5
OSPP40-C	28	69	G1/4	54	M6	15	3	21
OSPP50-C	33	87	G1/4	70	M6	15	-	27
OSPP63-C	38	106	G3/8	78	M8	21	-	30
OSPP80-C	47	132	G1/2	96	M10	25	-	37.5

Series OSPP16-C**Both Air Connections at One End**

A special end cap with both air connections on one side is available for situations where shortage of space, simplicity of installation or the nature of the process make it desirable.

Air supply to the other end is via internal air passages (OSPP25-C to 80-C) or via a hollow aluminium profile fitted externally (OSPP16-C).

In this case the end caps cannot be rotated.

Series OSPP25-C**Series OSPP32-C to 80-C****Dimension Table [mm]**

Series	B	C	D	E	G	H	I_1	I_2	BX	BW	EN	EN_1	EN_2	FA	FB	FC	FE	FG	FL	FN
OSPP16-C	14	30	M5	18	M3	9	5.5	-	1.8	10.8	3	-	-	12.6	12.6	4	27	21	36	-
OSPP25-C	22	41	G1/8	27	M5	15	9	-	2.2	17.5	-	3.6	3.9	-	-	-	-	-	-	-
OSPP32-C	25.5	52	G1/8	36	M6	15	12.2	10.5	-	20.5	-	-	-	-	-	-	-	-	-	15.2
OSPP40-C	28	69	G1/8	54	M6	15	12	12	-	21	-	-	-	-	-	-	-	-	-	17
OSPP50-C	33	87	G1/4	70	M6	15	14.5	14.5	-	27	-	-	-	-	-	-	-	-	-	22
OSPP63-C	38	106	G3/8	78	M8	21	16.5	13.5	-	30	-	-	-	-	-	-	-	-	-	25
OSPP80-C	47	132	G1/2	96	M10	25	22	17	-	37.5	-	-	-	-	-	-	-	-	-	34.5

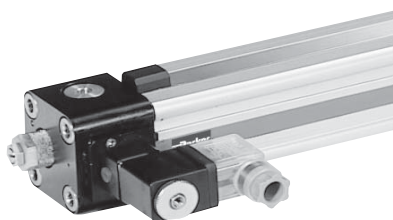
Integrated 3/2 Way Valves VOE

For optimal control of the OSP-P cylinder, 3/2 way valves integrated into the cylinder's end caps can be used as a compact and complete solution.

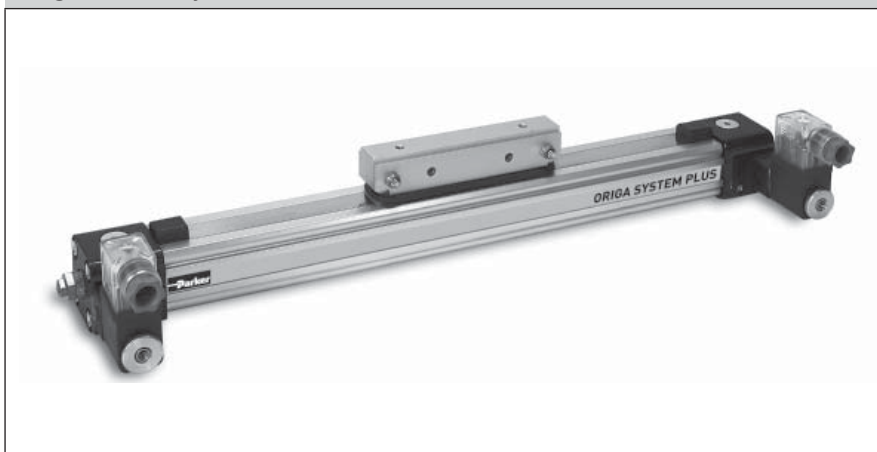
They allow for easy positioning of the cylinder, smooth operation at the low-est speeds and fast response, making them ideally suited for the direct control of production and automation processes.

Characteristics:

- Complete compact solution
- Various connection possibilities:
Free choice of air connection with rotating end caps with VOE valves,
- Air connection can be rotated 4 x 90°,
- Solenoid can be rotated 4 x 90°,
- Pilot valve can be rotated 180°
- High piston velocities can be achieved with max. 3 exhaust ports
- Minimal installation requirements
- Requires just one air connection per valve
- Optimal control of the OSPP-C cylinder
- Excellent positioning characteristics
- Integrated operation indicator
- Integrated exhaust throttle valve
- Manual override - indexed
- Adjustable end cushioning
- Easily retrofitted – please note the increase in the overall length of the cylinder!



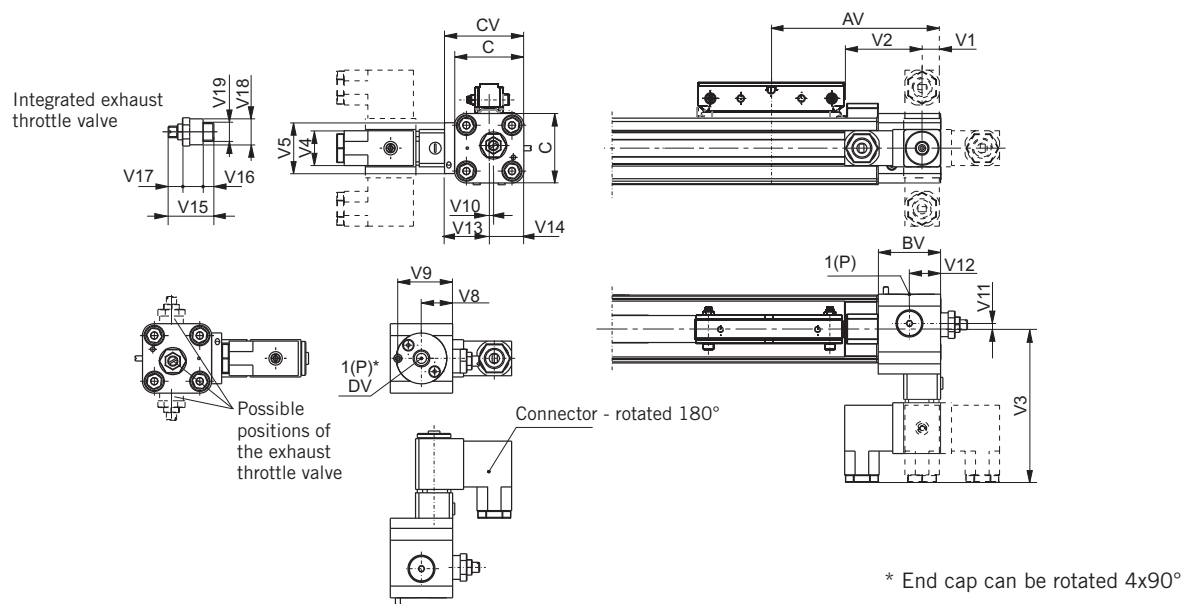
Integrated 3/2 Way Valves VOE Series OSPP25-C, 32-C, 40-C, and 50-C



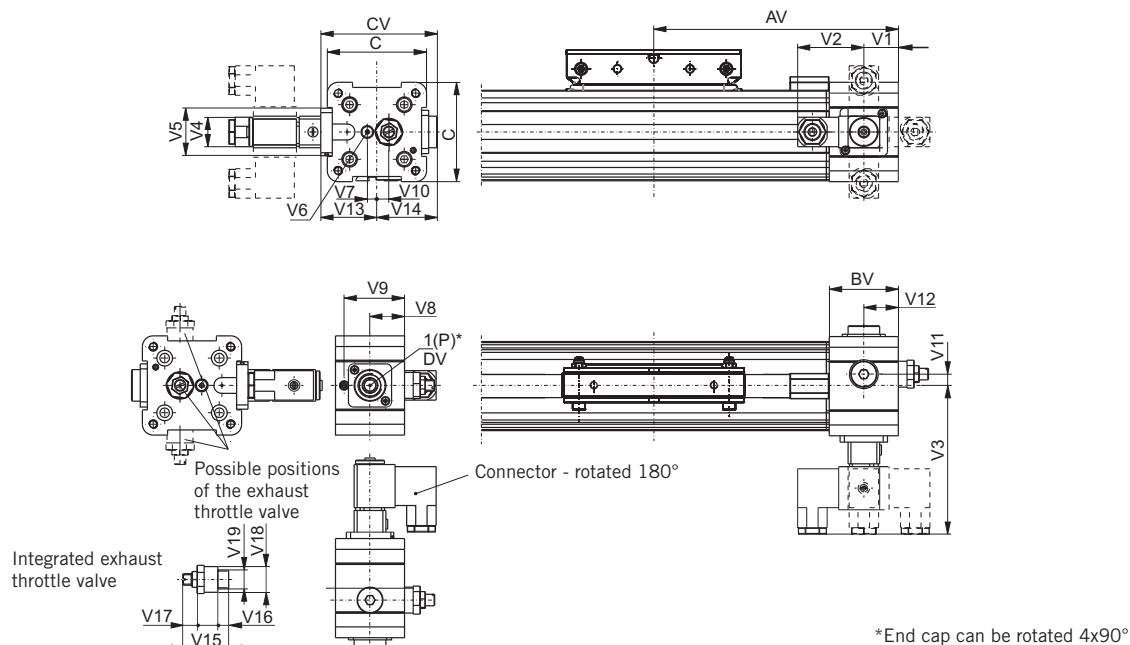
Characteristics 3/2-Way Valves VOE

Characteristics	3/2-Way Valves with spring return			
Pneumatic diagram				
Type	VOE-25	VOE-32	VOE-40	VOE-50
Actuation	electrical			
Basic position	P → A open, R closed			
Type	Poppet valve, non overlapping			
Mounting	integrated in end cap			
Installation	in any position			
Port size	G 1/8	G 1/4	G 3/8	G 3/8
Temperature	-10°C to +50°C *			
Operating pressure	2-8 bar			
Nominal voltage	24V DC / 230V AC, 50Hz			
Power consumption	2,5 W / 6 VA			
Duty cycle	100%			
Electrical Protection	IP 65 DIN 40050			

* Other temperature ranges on request

Dimensions VOE Valves OSPP25-C and 32-C**Dimension Table [mm]**

Series	AV	BV	C	CV	DV	V1	V2	V3	V4	V5	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19
OSPP25-C	115	37	41	47	G1/8	11	46	90.5	22	30	18.5	32.5	2.5	3.3	18.5	26.5	20.5	24	5	4	14	G1/8
OSPP32-C	139	39.5	52	58	G1/4	20.5	46	96	22	32	20.5	34.7	6	5	20.5	32	26	32	7.5	6	18	G1/4

Dimensions VOE Valves OSPP40-C and 50-C**Dimension Table [mm]**

Series	AV	BV	C	CV	DV	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19
OSPP40-C	170	48	69	81	G3/8	24	46	103	22	33	M5	6.7	24	42	8.3	8.3	24	39	42	32	7.5	6	18	G1/4
OSPP50-C	190	48	87	82	G3/8	24	46	102	22	33	M5	4.5	24	42	12.2	12.2	24	38	44	32	7.5	6	18	G1/4

Order Instructions – Basic Cylinder

1-4	5+6	7	8	9	10	11	12-16	17	18	19	20	21	22	23	24	25
OSPP	25	C	0	0	0	0	01100	0	0	0	0	0	0	0	0	0

Piston-Ø
16
25
32
40
50
63
80

Stroke Length
in mm (5 digits)

Screws
0 Standard
1 Stainless

Cushioning
0 Standard

Version / Piston
C Classic
T Classic Tandem

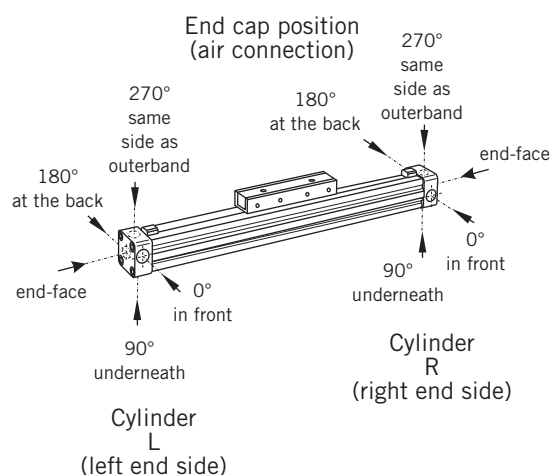
Lubrication
0 Standard
1 slow speed ²⁾

End cap position
0 L+R 0° = in front
1 L+R 90° = underneath
2 L+R 180° = at the back
3 L+R 270° = same side as outerband
4 L 90° = underneath R 0° = in front
5 L 180° = at the back R 0° = in front
6 L 270° = same side as outerband R 0° = in front
7 L 0° = in front R 90° = underneath
8 L 180° = at the back R 90° = underneath
9 L 270° = same side as outerband R 0° = underneath
A L 0° = in front R 180° = at the back
B L 90° = underneath R 180° = at the back
C L 270° = same side as outerband R 180° = at the back
D L 0° = in front R 270° = oben
E L 90° = underneath R 270° = same side as outerband
F L 180° = at the back R 270° = same side as outerband

Cover / Cable Channel
0 Standard
1 Cable channel
2 Cable channel two-sided
X without cover rail

Air Connection
0 Standard
1 end face
2 both at one end (not turnable)
3 left standard right end face
4 right standard left end face
A 3/2 Way valve VOE 24 V = Ø 25,32,40,50
B 3/2 Way valve VOE 230 V~ / 110 V = Ø 25,32,40,50
C 3/2 Way valve VOE 48 V = Ø 25,32,40,50
E 3/2 Way valve VOE 110 V~ Ø 25,32,40,50

Seals
0 Standard (NBR)
1 Viton® ¹⁾

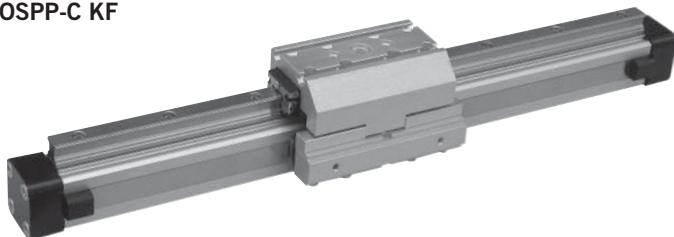
**Accessories - please order separately !**

Description	Further information see
End Cap Mountings	Page 22
Mid-Section Support	Page 23
Adaptor Profile	Page 30
T-Slot Profile	Page 31
Magnetic Switches	Page 32 to 35
Cable Channel	Page 36

¹⁾ Viton with VOE not available.²⁾ Slow speed lubrication in combination with Viton® seals on demand.

Versions

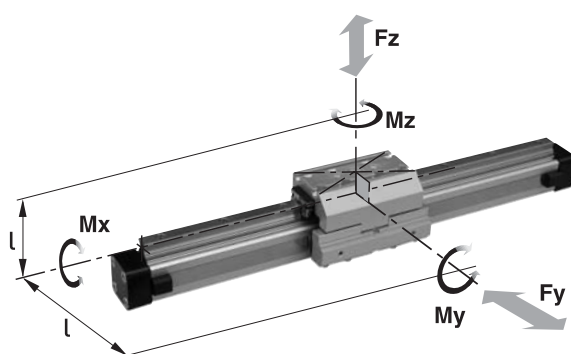
for Pneumatic Linear Drive:
Series OSPP-C KF



Recirculating Ball Bearing Guide KF



Loads, Forces and Moments



Series KF16 to KF50
For Linear Drives
Series OSPP-C CLASSIC

Features:

- Anodized aluminium guide carriage, the mounting dimensions correspond to FESTO Type: DGPL-KF
- Polished and hardened steel guide rail
- For high loads in all directions
- High precision
- Integrated wiper system
- Integrated grease nipples
- Any length of stroke up to 3700 mm
- Maximum speed
KF16, KF40: v = 3 m/s
KF25, KF32, KF50: v = 5 m/s

Technical Data

The table shows the maximum permissible loads. If multiple moments and forces act upon the cylinder simultaneously, the following equation applies:

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

The sum of the loads should not exceed >1

The table shows the maximum permissible values for light, shock-free operation, which must not be exceeded even under dynamic conditions.

*Please note:

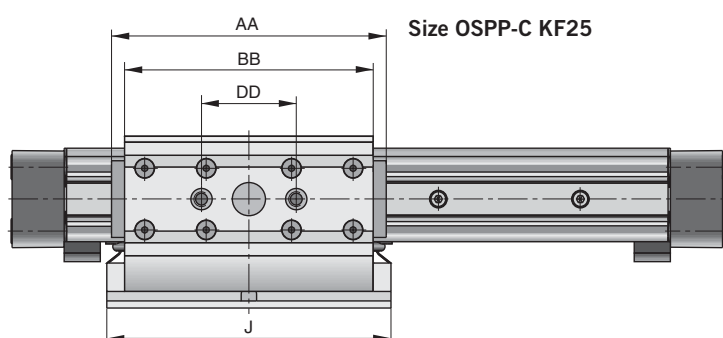
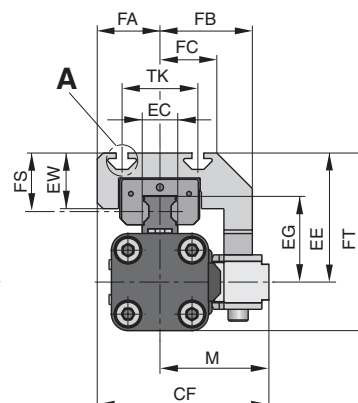
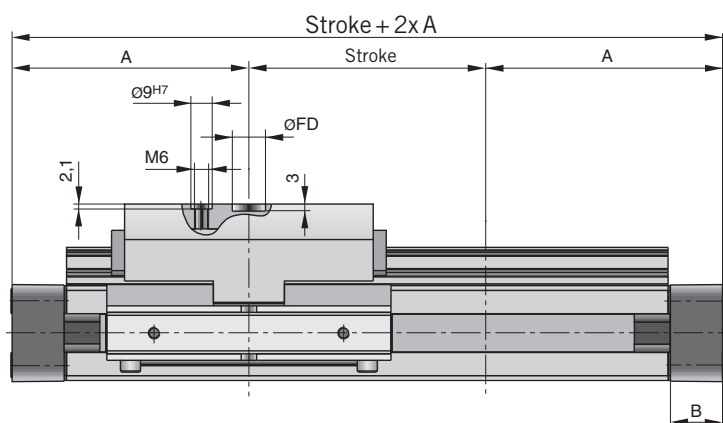
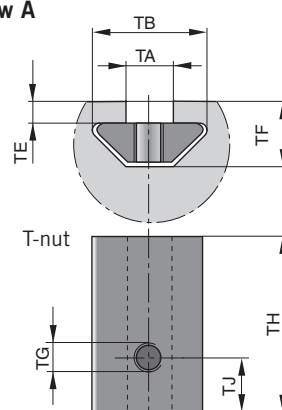
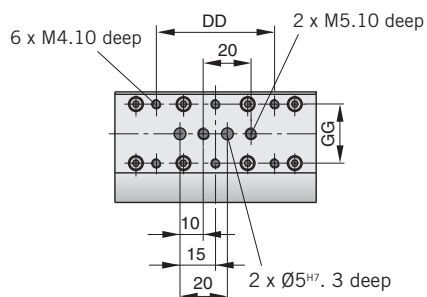
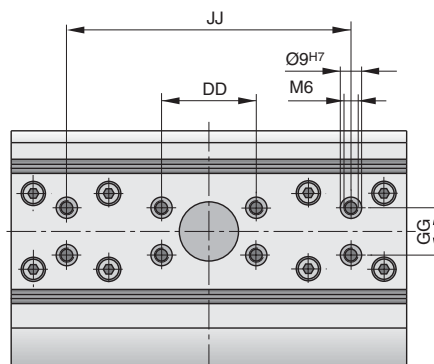
the mass of the carriage has to be added to the total moving mass when using the cushioning diagram.

Series	For linear drive	Max. moment [N]			Max. loads [N]		Mass of linear drive with guide [kg]		Mass * guide carriage [kg]	Groove stone Thread size	Order-No.	
		Mx	My	Mz	Fy	Fz	with 0 mm stroke	increase per 100 mm stroke			Groove Stone	Guide KF without cylinder**
KF16	OSPP16-C	12	25	25	1000	1000	0.558	0.21	0.228	-	-	21101
KF25	OSPP25-C	35	90	90	3100	3100	1.522	0.369	0.607	M5	13508FIL	21102
KF32	OSPP32-C	44	133	133	3100	3100	2.673	0.526	0.896	M5	13508FIL	21103
KF40	OSPP40-C	119	346	346	4000	7100	4.167	0.701	1.531	M6	13509FIL	21104
KF50	OSPP50-C	170	480	480	4000	7500	7.328	0.936	2.760	M8	13510FIL	21105

** Please use this order pattern: Order-No. + „stroke in mm“ (5 digits)

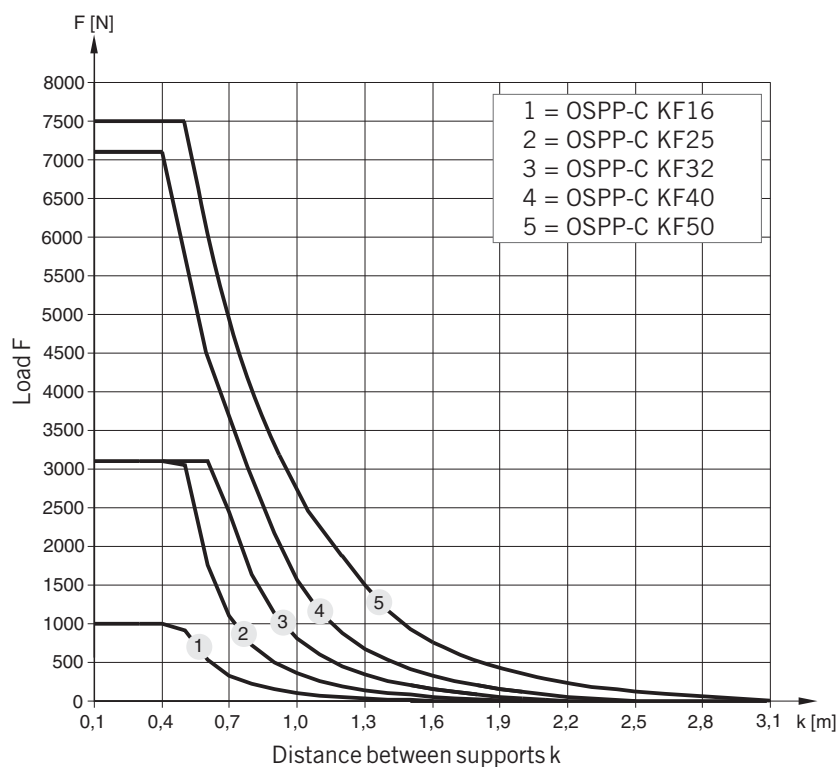
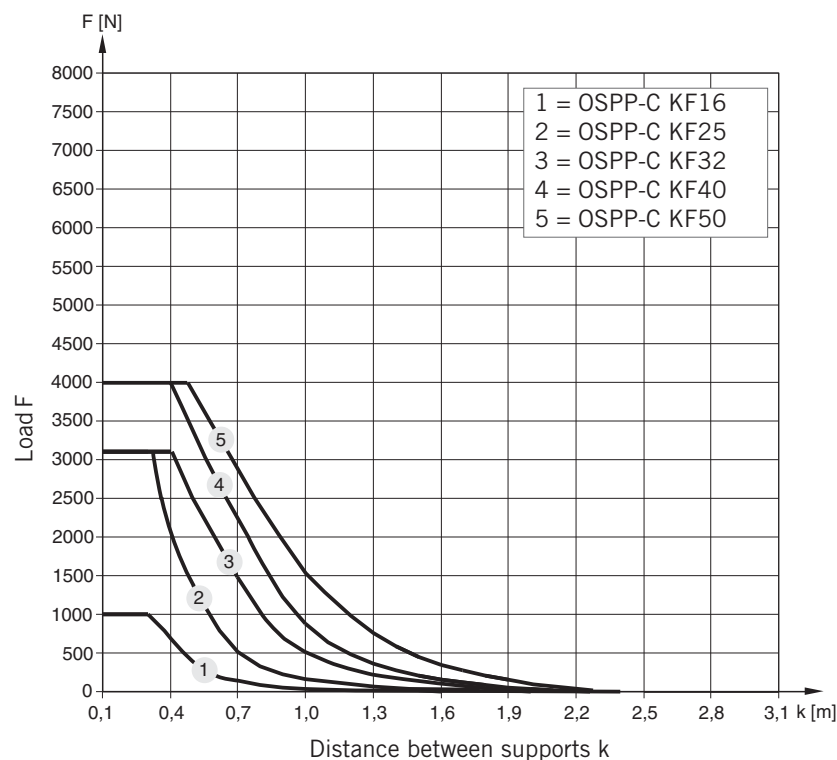
Example: KF guide D16 mm, stroke 1000 mm: 21101-01000

Cushioning Diagram see page 5
For mountings and accessories see page 24-29

Dimensions Series OSPP-C KF16 to KF50**Partial view A**
(with T-nut)**Size OSPP-C KF16****Size OSPP-C KF32 to KF50****Dimension Table [mm]**

Series	A	B	J	AA	BB	CF	DD	EC	EE	EG	EW	JJ	GG	M
OSPP-C KF16	65	14	76	93	85	48	50	15	41	24.6	10	-	25	30
OSPP-C KF25	100	22	120	120.2	105	72.5	40	15	54.5	36.2	23.5	-	-	46
OSPP-C KF32	125	25.5	160	146.2	131	93.8	40	15	60.5	42.2	23.5	-	20	59.8
OSPP-C KF40	150	28	150	188.5	167	103.3	40	20	69.5	51.6	26.5	120	20	60.8
OSPP-C KF50	175	33	180	220.2	202	121	40	23	90.5	62.3	32.5	120	40	69

Series	FA	FB	FC	FD	FT	FS	TA	TB	TE	TF	TG	TH	TJ	TK
OSPP-C KF16	17.7	29	16.5	-	56	19	-	-	-	-	-	-	-	-
OSPP-C KF25	26.5	39	24	14 ⁶⁷	75	24.7	5	12.1	2.3	6.9	M5	11.5	4	32
OSPP-C KF32	34	53.8	34	25 ⁶⁷	86.5	24.7	5	12.1	1.8	6.4	M5	11.5	4	47
OSPP-C KF40	42.5	56.8	41	25 ⁶⁷	104	26	6	12.8	1.8	8.4	M6	17	5.5	55
OSPP-C KF50	52	65	50	25 ⁶⁷	134	38	8	21.1	4.5	12.5	M8	23	7.5	72

Permissible Unsupported Length OSPP-C KF16 to KF50**Loading 1 – Top carrier****Permissible Unsupported Length OSPP-C KF16 to KF50****Loading 2 – Side carrier****Mid-Section Support**

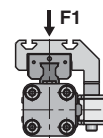
Mid-section supports are required from a certain stroke length to prevent excessive deflection and vibration of the linear drive. The diagrams show the maximum permissible unsupported length in relation to loading.

A distinction must be drawn between loading 1 and loading 2.

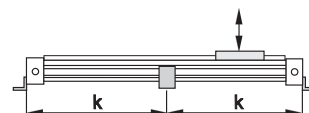
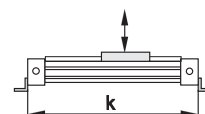
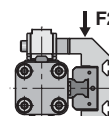
Deflection of 0.5 mm max. between supports is permissible.

Types and Dimensions see page 25, 28-29

Loading 1
Top carrier



Loading 2
Side carrier

**Note:**

For speeds $v > 0.5$ m/s the distance between supports should not exceed 1 m.

Variable Stop

The variable stop Type VS provides simple stroke limitation.

It can be retrofitted and positioned anywhere along the stroke length.

For every cylinder diameter two types of shock absorber are available

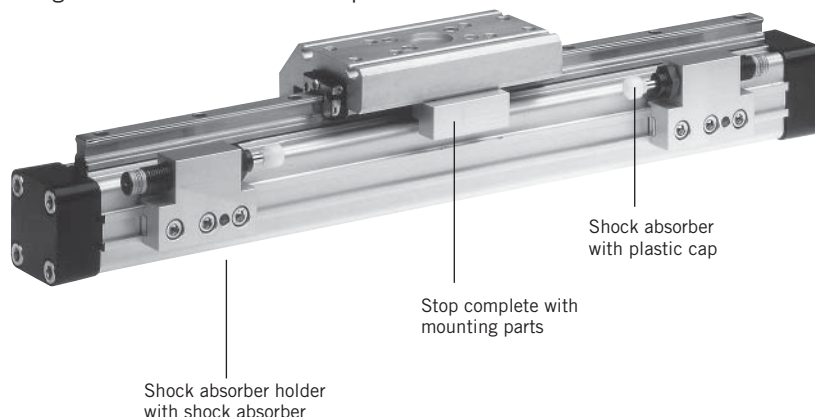
– see „Shock Absorber Selection“ below.

Mid-section supports and magnetic switches can still be fitted on the same side as the variable stop.

Depending on the application, two variable stops can be fitted if required.

Variable Stop Type VS16 to VS50

Arrangement with two variable stops



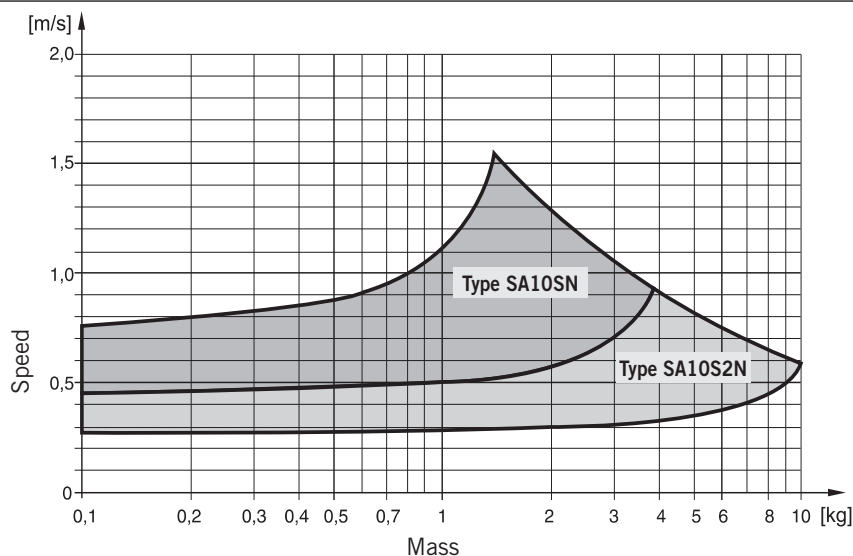
Shock Absorber Selection

The shock absorber is selected in dependence on the mass and speed.

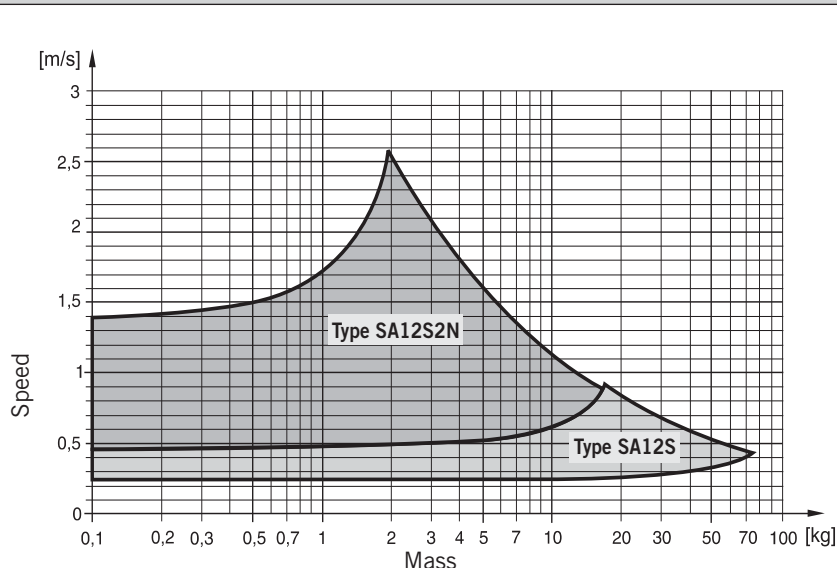
The mass of the carrier itself must be taken into account.

The values relate to an effective driving force of 78 N (6 bar)

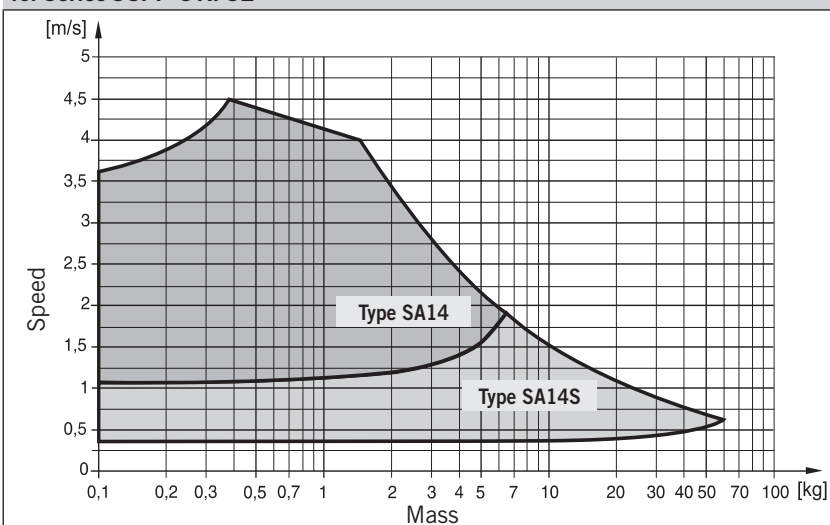
Shock Absorber Selection in Dependence on Mass and Speed for Series OSPP-C KF16



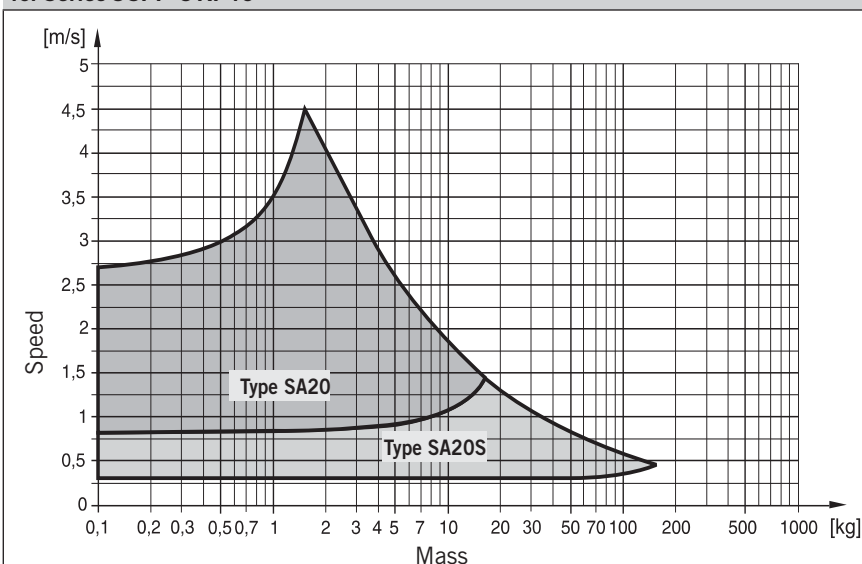
Shock Absorber Selection in Dependence on Mass and Speed for Series OSPP-C KF25



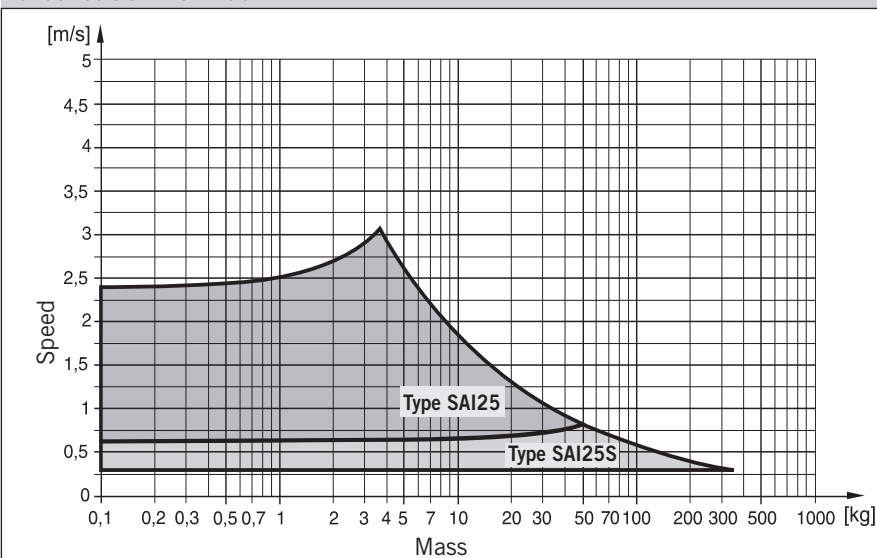
The values relate to an effective driving force of 250 N (6 bar)

**Shock Absorber Selection in Dependence on Mass and Speed
for Series OSPP-C KF32**

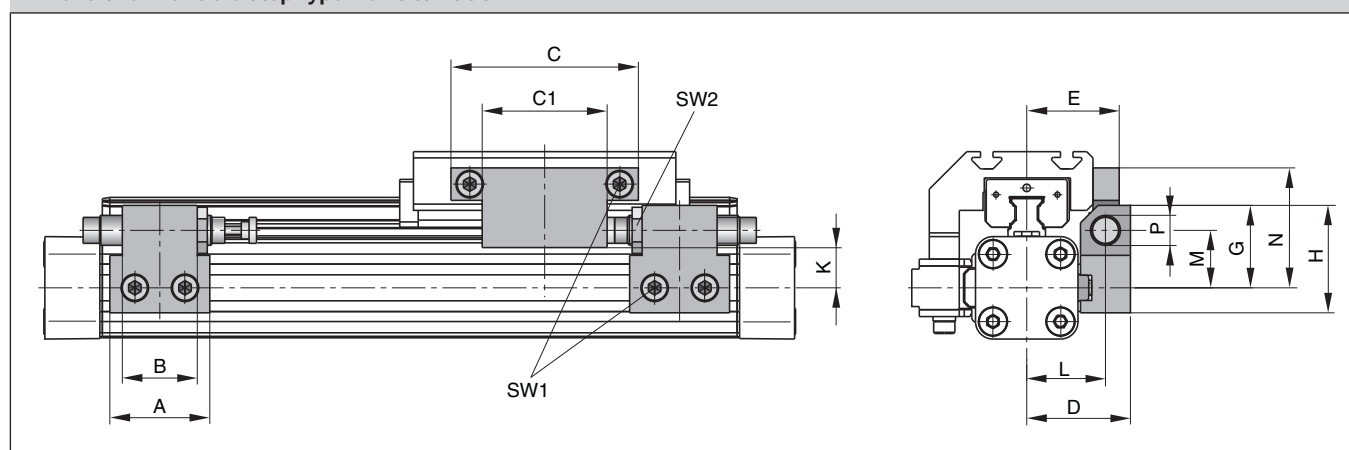
The values relate to an effective driving force of 420 N (6 bar)

**Shock Absorber Selection in Dependence on Mass and Speed
for Series OSPP-C KF40**

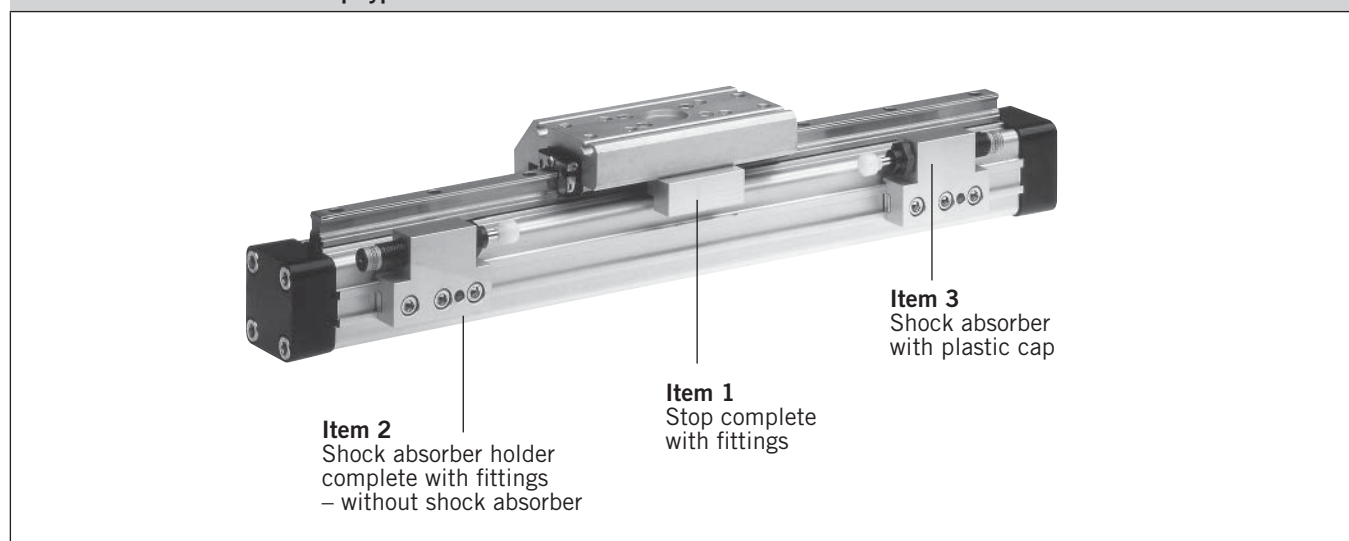
The values relate to an effective driving force of 640 N (6 bar)

**Shock Absorber Selection in Dependence on Mass and Speed
for Series OSPP-C KF50**

The values relate to an effective driving force of 1000 N (6 bar)

Dimensions – Variable Stop Type VS16 to VS50**Dimension Table [mm] – Variable Stop Type VS16 to VS50**

Series	Type	A	B	C	C1	D	E	G	H	K	L	M	N	P	SW1	SW2
OSPP-C KF16	VS16	30	14	50	25	33	29.7	28	38	16.2	25.5	20.5	40.5	M10x1	4	12.5
OSPP-C KF25	VS25	40	30	75	50	41.5	37	33	43	18	31.5	23	48	M12x1	5	16
OSPP-C KF32	VS32	60	40	50	-	45.5	41.5	35	45	19	35.5	25	37	M14x1.5	5	17
OSPP-C KF40	VS40	84	52	60	-	64	59	48	63	25.5	50	34	43	M20x1.5	5	24
OSPP-C KF50	VS50	84	-	60	-	75	69	55	70	26.9	57	38	58	M25x1.5	5	30

Order Information – Variable Stop Type VS16 to VS50**Order Instructions – Variable Stop Type VS16 to VS50**

without cylinder and without guide

Item	Description	Size									
		VS16		VS25		VS32		VS40		VS50	
		Type	Order No.	Type	Order No.	Type	Order No.	Type	Order No.	Type	Order No.
1	Stop, complete	-	21186FIL	-	21187FIL	-	21188FIL	-	21189FIL	-	21190FIL
2	Shock absorber holder, complete	-	21201FIL	-	21202FIL	-	21203FIL	-	21204FIL	-	21205FIL
3*	Shock absorber, soft	SA10SN	7718FIL	SA12S2N	7723FIL	SA14	7708FIL	SA20	7930FIL	SAI25	7712FIL
	Shock absorber, hard	SA10S2N	7721FIL	SA12S	7707FIL	SA14S	7709FIL	SA20S	7711FIL	SAI25S	7713FIL

* Shock absorber with plastic cap

Note: Order instructions for VS in combination with the cylinder and guide see page 19, pos. 18

Order Instructions – KF

1-4	5+6	7	8	9	10	11	12-16	17	18	19	20	21	22	23	24	25
OSPP	25	C	0	0	0	0	01100	0	0	0	C	0	0	0	0	0

Piston-Ø
16
25
32
40
50

Stroke
Input in mm (5 digits)

Screws
0 Standard

Cushioning
0 Standard
2 VS variable stop, soft left for KF
3 VS variable stop, hard, left for KF
4 VS variable stop, soft, right for KF
5 VS variable stop, hard, right for KF
6 VS variable stop, soft, both sides for KF
7 VS variable stop, hard, both sides for KF

Version / Piston
C Classic
T Classic Tandem

Lubrication
0 Standard
1 slow speed ²⁾

Cover / Cable Channel
0 Standard
1 Cable channel
2 Cable channel two-sided
X without Cover rail

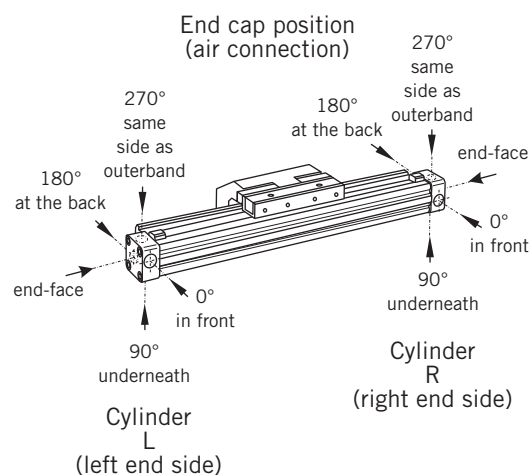
Air Connection
0 Standard
1 end face
2 both at one end (not turnable)
3 left standard right end face
4 right standard left end face
A 3/2 way valve VOE 24 V = Ø 25,32,40,50
B 3/2 way valve VOE 230 V~/110 V = Ø 25,32,40,50
C 3/2 way valve VOE 48 V = Ø 25,32,40,50
E 3/2 way valve VOE 110 V ~ Ø 25,32,40,50

Seals
0 Standard (NBR)
1 Viton® ¹⁾

End cap position
0 L+R 0° = in front
1 L+R 90° = underneath
2 L+R 180° = at the back
3 L+R 270° = same side as outerband
4 L 90° = underneath; R 0° = in front
5 L 180° = at the back; R 0° = in front
6 L 270° = same side as outerband; R 0° = in front
7 L 0° = in front; R 90° = underneath
8 L 180° = at the back; R 90° = underneath
9 L 270° = same side as outerband; R 90° = underneath
A L 0° = in front; R 180° = at the back
B L 90° = underneath; R 180° = at the back
C L 270° = same side as outerband; R 180° = at the back
D L 0° = in front; R 270° = same side as outerband
E L 90° = underneath; R 270° = same side as outerband
F L 180° = at the back; R 270° = same side as outerband

Guides
C KF

add. Guide Carriage
0 without
C Guide Carriage KF



¹⁾ Viton with VOE not possible.

²⁾ "Slow speed lubrication" in combination with „Viton®“ seals on demand.

Description	Page
End Cap Mountings for OSPP-C Basic Cylinder	22
End Cap Mountings for Linear Drives with guides OSPP-C KF	26 - 27
- Standard	24
- with FESTO-dimensions	
Mid-Section Support for OSPP-C Basic Cylinder	23
Mid-Section Support for Linear Drives with guides OSPP-C KF	28 - 29
- Standard	25
- with FESTO-dimensions	
Connection Profile	30
T-Slot Profile	31
Magnetic Switch	32 -35
Cable Cover	36

Linear Drive Accessories Overview

Series OSPP-C and OSPP-C KF



Linear Drive Accessories

∅ 16-80 mm End Cap Mountings

For Linear-drive

- Series OSPP-C Basic Cylinder

On the end-face of each end cap there are four threaded holes for mounting the actuator.

The hole layout is square, so that the mounting can be fitted to the bottom, top or either side, regardless of the position chosen for the air connection.

Material:

Series OSPP16-C to 32-C:

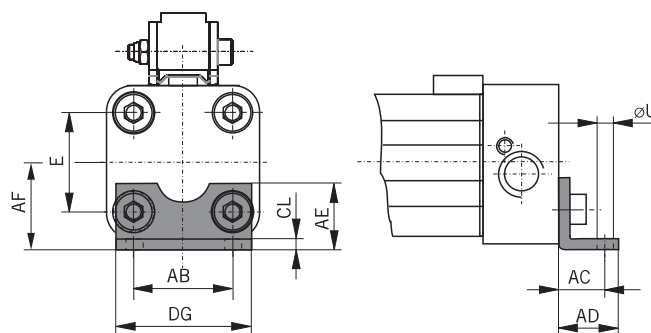
Galvanised steel.

Series OSPP40-C to 80-C:

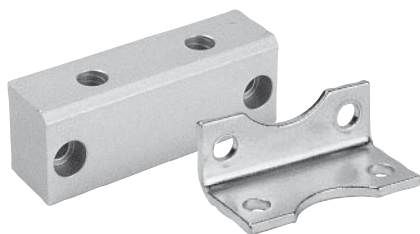
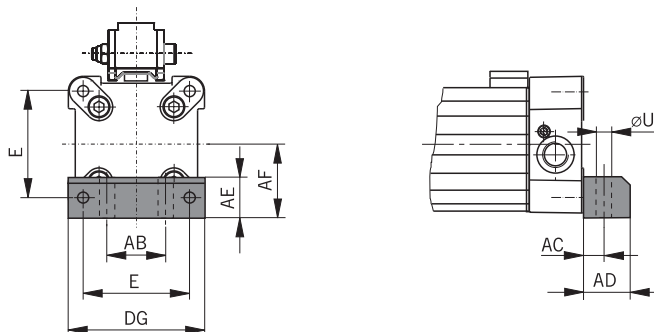
Anodized aluminium.

The mountings are supplied in pairs.

Series OSPP16-C to 32-C: Type A1



Series OSPP40-C to 80-C: Type C1

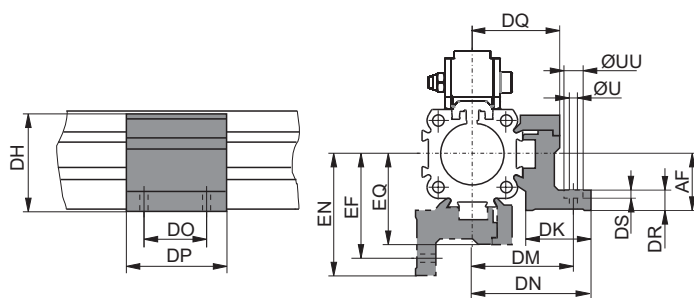


Dimension Table [mm]

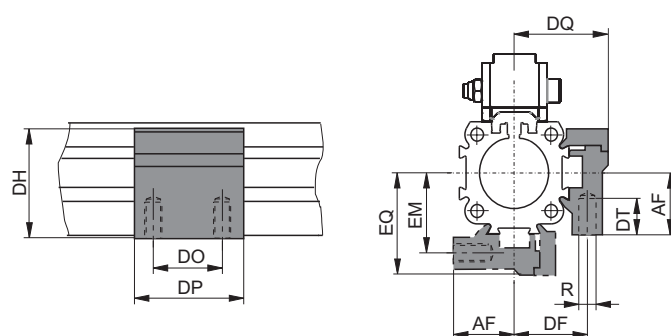
Series	E	∅U	AB	AC	AD	AE	AF	CL	DG	Order-No. (Pair)	
										Type A1	Type C1
OSPP16-C	18	3.6	18	10	14	12.5	15	1.6	26	20408FIL	-
OSPP25-C	27	5.8	27	16	22	18	22	2.5	39	2010FIL	-
OSPP32-C	36	6.6	36	18	26	20	30	3	50	3010FIL	-
OSPP40-C	54	9	30	12.5	24	24	38	-	68	-	4010FIL
OSPP50-C	70	9	40	12.5	24	30	48	-	86	-	5010FIL
OSPP63-C	78	11	48	15	30	40	57	-	104	-	6010FIL
OSPP80-C	96	14	60	17.5	35	50	72	-	130	-	8010FIL

Series OSPP16-C to 80-C: Type E1

(Mounting from above / below using a cap screw)

**Series OSPP16-C to 80-C: Type D1**

(Mounting from below with 2 screws)



Linear Drive Accessories

ø 16-80 mm

Mid-Section Support

OSP
— ORIGA
— SYSTEM
— PLUS

For Linear-drive

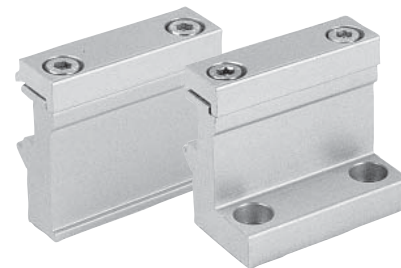
• Series OSPP-C

Note on Types E1 and D1:

The mid-section support can also be mounted on the underside of the actuator, in which case its distance from the centre of the actuator is different.

For design notes, see page 6.

Stainless steel version on request.

**Dimension Table [mm]**

Series	R	ØU	ØUU	AF	DF	DH	DK	DM	DN	DO	DP	DQ	DR	DS	DT	EF	EM	EN	EQ	Order-No.	
																				Type E1	Type D1
OSPP16-C	M3	3.4	6	15	20	29.2	24	32	36.4	18	30	27	6	3.4	6.5	32	20	36.4	27	20435FIL	20434FIL
OSPP25-C	M5	5.5	10	22	27	38	26	40	47.5	36	50	34.5	8	5.7	10	41.5	28.5	49	36	20009FIL	20008FIL
OSPP32-C	M5	5.5	10	30	33	46	27	46	54.5	36	50	40.5	10	5.7	10	48.5	35.5	57	43	20158FIL	20157FIL
OSPP40-C	M6	7	-	38	35	61	34	53	60	45	60	45	10	-	11	56	38	63	48	20028FIL	20027FIL
OSPP50-C	M6	7	-	48	40	71	34	59	67	45	60	52	10	-	11	64	45	72	57	20163FIL	20162FIL
OSPP63-C	M8	9	-	57	47.5	91	44	73	83	45	65	63	12	-	16	79	53.5	89	69	20452FIL	20451FIL
OSPP80-C	M10	11	-	72	60	111.5	63	97	112	55	80	81	15	-	25	103	66	118	87	20482FIL	20480FIL

Linear Drive Accessories

∅ 25-50 mm

End Cap Mountings

correspond to
FESTO dimensions
HP25 – 50

For Linear Drives with
Recirculating Ball Bearing Guide

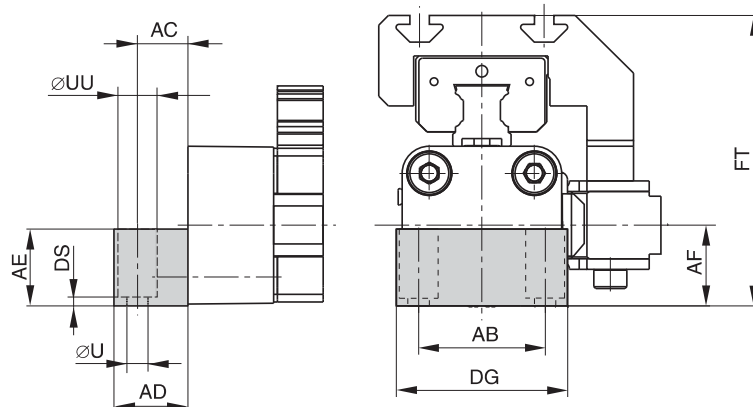
• Series OSPP-C KF

On the end-face of each end cap there are four threaded holes for mounting the actuator.

Material:
Series OSPP-C KF25 to KF50:
Anodized aluminium.

The mountings are supplied in pairs.

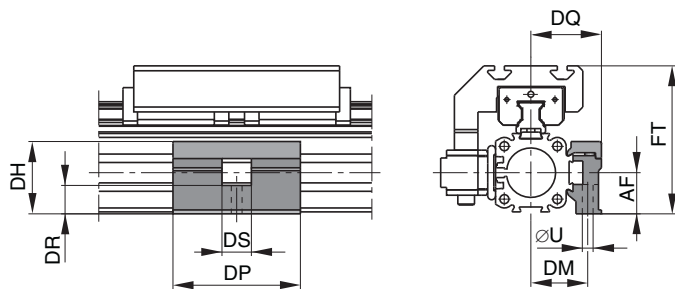
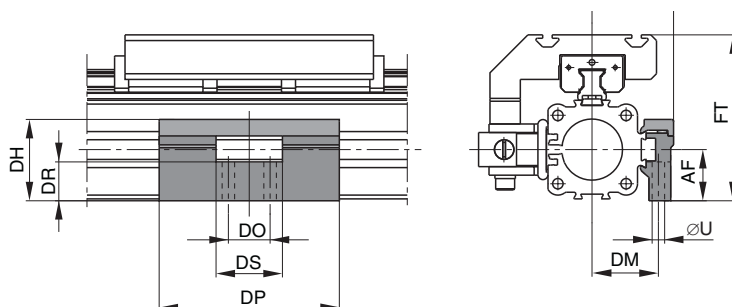
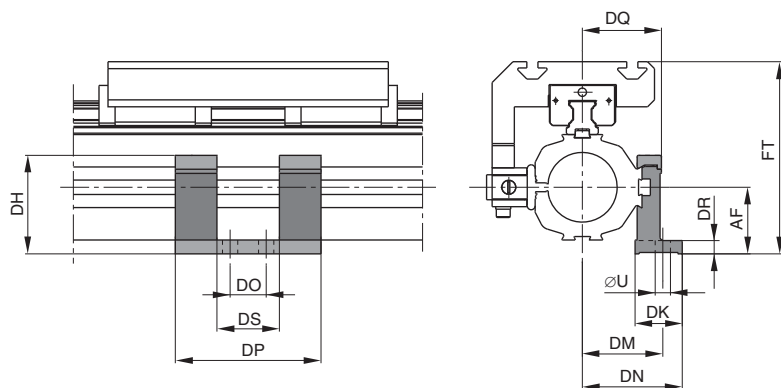
Series OSPP-C KF25 to KF50: Type HP (Correspond to FESTO dimensions)



Note:
Correspond to FESTO DGPL-KF, when the End Cap Mountings HP are mounted on the opposite side to the carriage (see drawing)

Dimension Table [mm]

Series	∅U	AB	AC	AD	AE	AF	DG	DS	FT	∅UU	Order No.
HP25	5.5	32.5	13	19	20	21	44	2	75.5	10	21107FIL
HP32	6.6	38	17	24	24	27	52	3	87.5	11	21108FIL
HP40	6.6	45	17.5	24	24	35	68	2	104.5	11	21109FIL
HP50	9	65	25	35	35	48	86	6	138.5	15	21110FIL

Series OSPP-C KF25: Type MUP
(Mounting over through holes)**Series OSPP-C KF32 to KF40: Type MUP**
(Mounting over through holes)**Series OSPP-C KF50: Type MUP**
(Mounting over through holes)

Linear Drive Accessories

ø 25-50 mm

Mid-Section Support correspond to FESTO dimensions MUP25 - 50

For Linear Drives with
Recirculating Ball Bearing Guide

- Series OSPP-C KF

For design notes, see page 15.

Note:

Correspond to FESTO DGPL-KF, when the Mid-Section Support MUP are mounted on the 90° side to the carriage (see drawings).

Dimension Table [mm]

Series	ØU	AF	DH	DK	DM	DN	DO	DP	DQ	DR	DS	FT	Order No.
MUP25	5.5	21	36.9	-	29	-	-	65	36	14.5	15	75.5	21119FIL
MUP32	6.6	27	42.9	-	35	-	22	95	43	20.5	35	87.5	21120FIL
MUP40	6.6	35	58	-	40	-	22	95	48	28.5	35	104.5	21121FIL
MUP50	11	48	71	34	58	72	26	105	57	10	45	138.5	21122FIL

Linear Drive Accessories

Ø 16-32 mm End Cap Mounting Type: B

For Linear Drives with
Recirculating Ball Bearing Guide

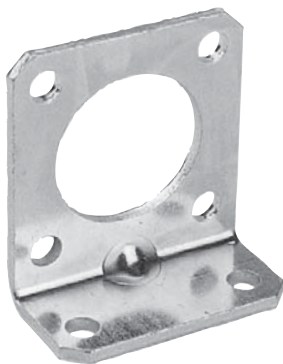
• Series OSPP-C KF

Material:

Galvanised steel

Anodized aluminium.

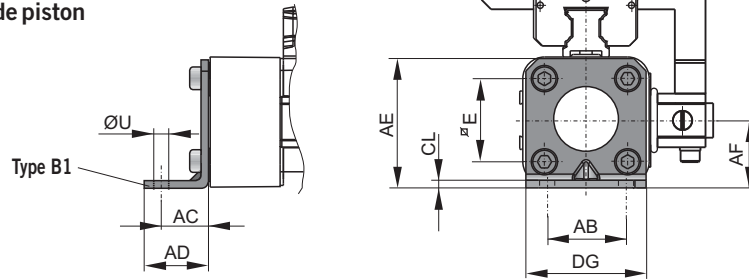
The mountings are supplied in pairs.



Series OSPP-C KF16, KF25, KF32 : Type B1

Installation:

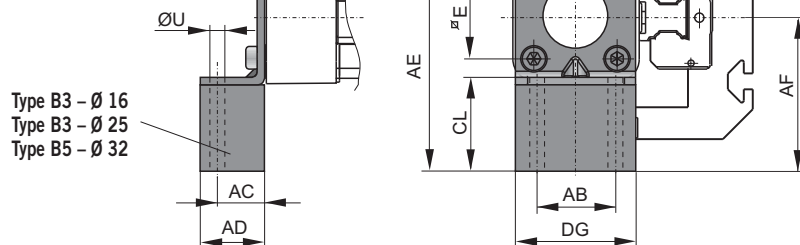
Top carrier
Side piston



Series OSPP-C KF16, KF25, KF32: Type B3 (Ø 32:B5)

Installation:

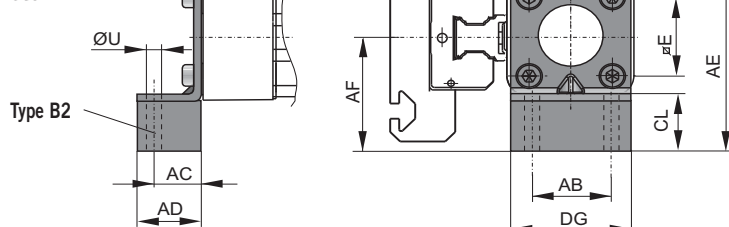
Side carrier
Piston below



Series OSPP-C KF16, KF25, KF32: Type B2

Installation:

Side carrier
Top piston

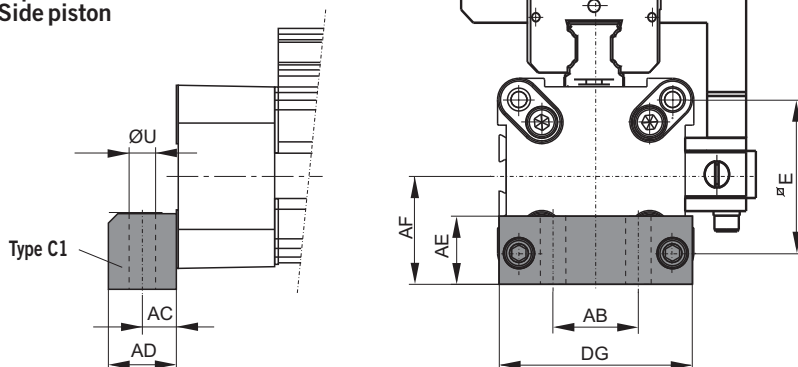


Dimension Table [mm] for End Cap Mounting: B1 to B5

Series	Mounting Type	E	ØU	AB	AC	AD	AE	AF	CL	DG	Order No. (Pair)
OSPP-C KF16	B1	18	3.6	18	10	14	28	15	2	26	21135FIL
	B2	18	3.6	18	10	14	43	30	17	26	21136FIL
	B3	18	3.6	18	10	14	55	42	29	26	21137FIL
OSPP-C KF25	B1	27	5.8	27	16	22	42	22	2.5	39	20311FIL
	B2	27	5.8	27	16	22	57	37	17.5	39	21138FIL
	B3	27	5.8	27	16	22	69	49	29.5	39	21139FIL
OSPP-C KF32	B1	36	6.6	36	18	26	55	30	3	50	20313FIL
	B2	36	6.6	36	18	26	69	44	17	50	21140FIL
	B5	36	6.6	36	18	26	90	65	9	50	21141FIL

Series OSPP-C KF40, KF50: Type C1**Installation:**

Top carrier
Side piston



Linear Drive Accessories

Ø 40 - 50 mm

End Cap Mounting Type: C

For Linear Drives with
Recirculating Ball Bearing Guide

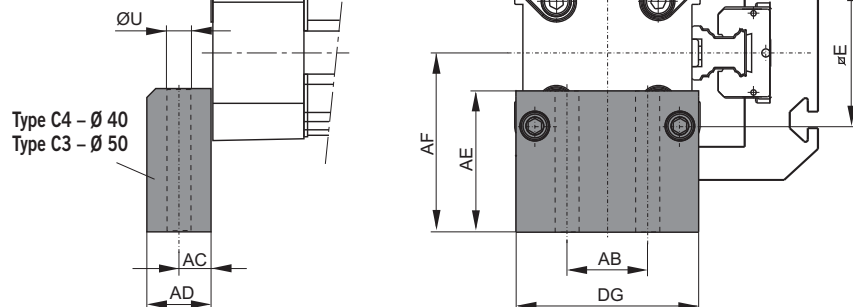
- Series OSPP-C KF

Material:
Anodized aluminium.

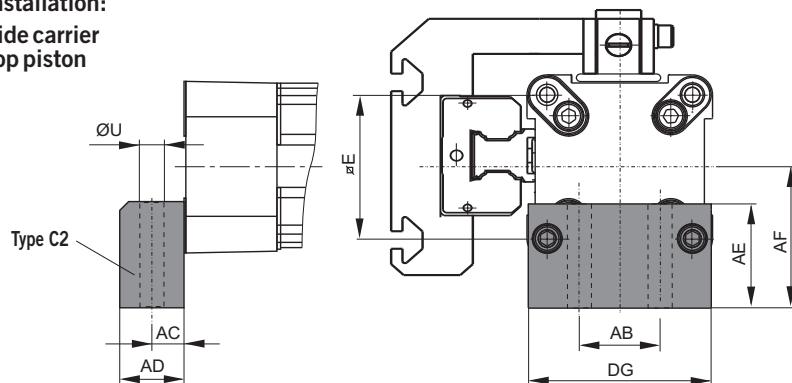
The mountings are supplied in pairs.

Series OSPP-C KF40, KF50: Type C4 (Ø 50: C3)**Installation:**

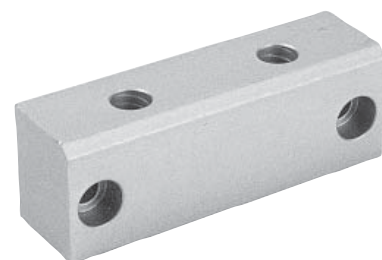
Side carrier
Piston below

**Series OSPP-C KF40, KF50: Type C2****Installation:**

Side carrier
Top piston

**Dimension Table [mm] for End Cap Mounting Type: C1 to C4**

ForSeries	Mounting Type	E	ØU	AB	AC	AD	AE	AF	DG	Order No. (Pair)
OSPP-C KF40	C1	54	9.0	30	12.5	24	24	38	68	4010FIL
	C2	54	9.0	30	12.5	24	37	51	68	20338FIL
	C4	54	9.0	30	12.5	24	56	70	68	20340FIL
OSPP-C KF50	C1	70	9.0	40	12.5	24	30	48	86	5010FIL
	C2	70	9.0	40	12.5	24	39	57	86	20349FIL
	C4	70	9.0	40	12.5	24	54	72	86	20350FIL



Linear Drive Accessories

Ø 16 to 50

Mid-Section Support Type: D1ST

For Linear Drives with
Recirculating Ball Bearing Guide

• Series OSPP-C KF

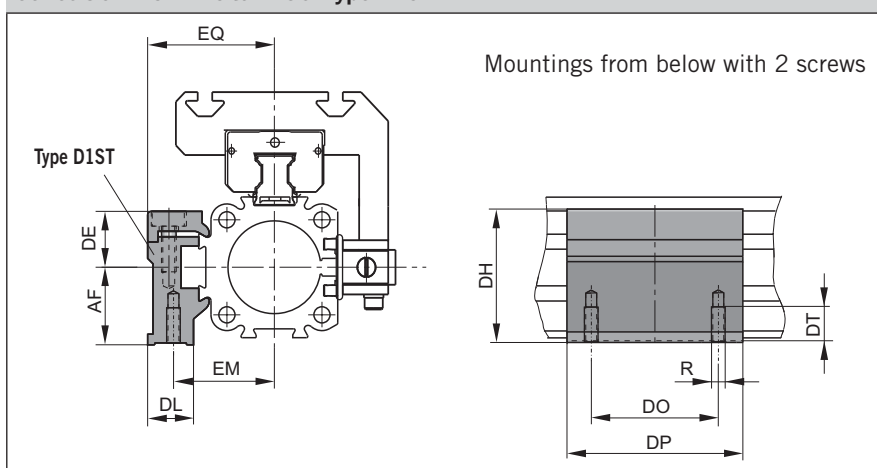
Note on Types D1ST

The mid-section support can also be mounted on the underside of the actuator, in which case its distance from the centre of the actuator is different.

For design notes, see
page 15 (Series OSPP-C KF)



Series OSPP-C KF16 to KF50: Type D1ST



Dimension Table [mm] Mid-Section Support D1ST

For Series	Mounting Type	R	AF	DE	DH	DL	DO	DP	DT	EM	EQ	Order No.
KF16	D1ST	M3	15	14.2	29.2	14.6	18	30	6.5	20	27	21125FIL
KF25	D1ST	M5	22	16	38	13	36	50	10	28.5	36	21126FIL
KF32	D1ST	M5	30	16	46	13	36	60	10	35.5	43	21127FIL
KF40	D1ST	M6	38	23	61	19	45	60	11	38	48	21128FIL
KF50	D1ST	M6	48	23	71	19	45	60	11	45	57	21129FIL

Order example: Type D1ST16 Order No. 21125FIL

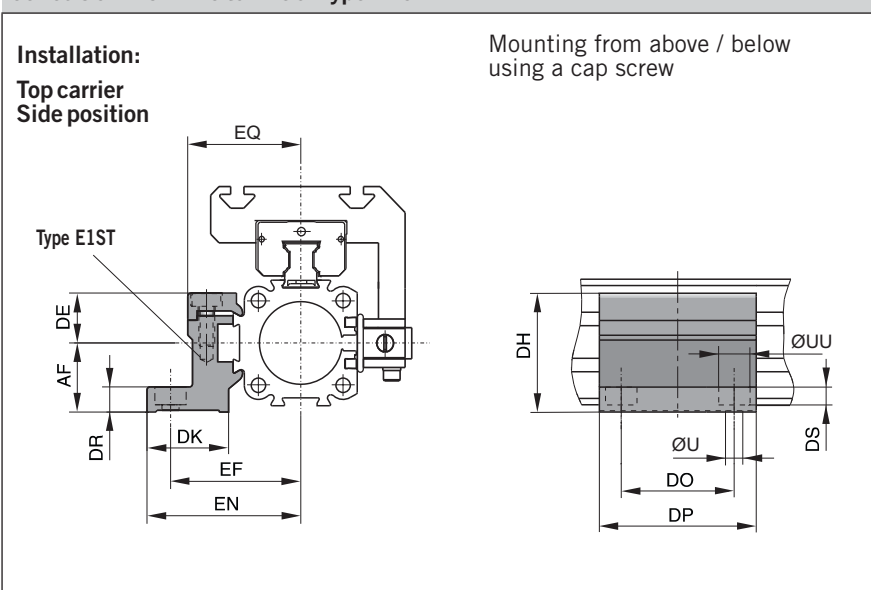
Mid-Section Support Type: E1ST bis E5ST

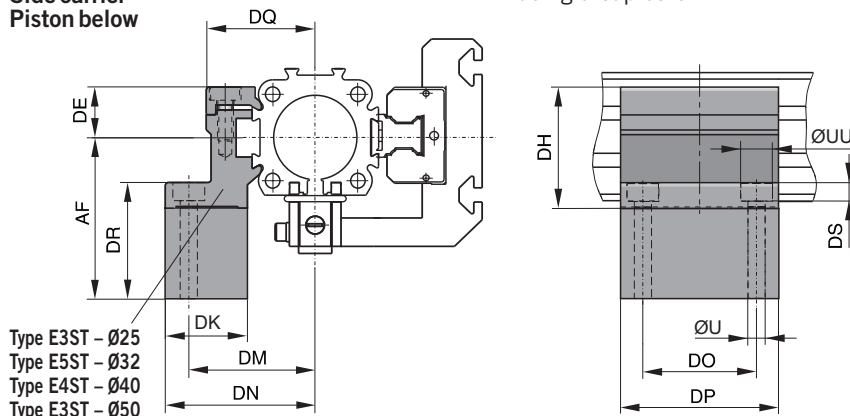
For Linear Drives with
Recirculating Ball Bearing Guide

• Series OSPP-C KF

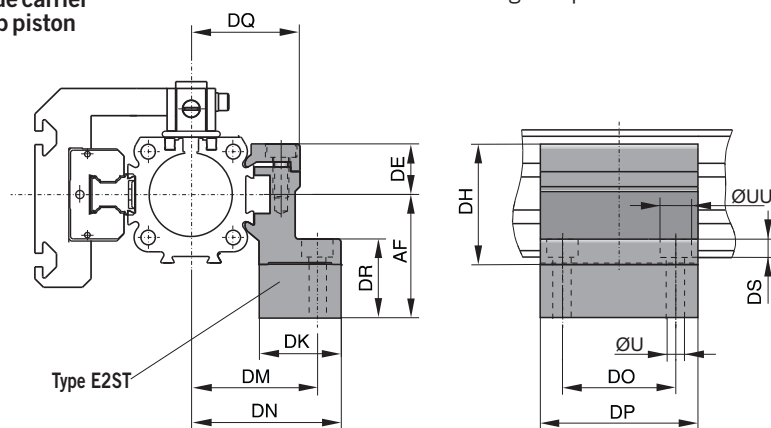


Series OSPP-C KF16 to KF50: Type E1ST



Series OSPP-C KF25 to KF50: Type E3ST, E4ST, E5ST**Installation:****Side carrier
Piston below**Mounting from above / below
using a cap screw**Mid-Section Support
Type: E1ST to E5ST**for Linear Drives with
Recirculating Ball Bearing Guide

- Series OSPP-C KF

Series OSPP-C KF16 to KF50: Type E2ST**Installation:****Side carrier
Top piston**Mounting from above / below
using a cap screw**Dimension Table [mm] for Mid-Section Support E1ST to E5ST**

Für Series OSPP-C	Mounting Type	ØU	ØUU	AF	DE	DH	DK	DM	DN	DO	DP	DQ	DR	DS	EF	EN	EQ	Ident-Nr.
KF16	E1ST	3.4	6	15	14.2	29.2	24	32	36.4	18	30	27	6	3.4	32	36.4	27	21130FIL
KF16	E2ST	3.4	6	30	14.2	29.2	24	32	36.4	18	30	27	21	3.4	32	36.4	27	21142FIL
KF25	E1ST	5.5	10	22	16	38	26	40	47.5	36	50	34.5	8	5.7	41.5	49	36	21131FIL
KF25	E2ST	5.5	10	37	16	38	26	40	47.5	36	50	34.5	23	5.7	41.5	49	36	21143FIL
KF25	E3ST	5.5	10	49	16	38	26	40	47.5	36	50	34.5	35	5.7	41.5	49	36	21148FIL
KF32	E1ST	5.5	10	30	16	46	27	46	54.5	36	60	40.5	10	5.7	48.5	57	43	21132FIL
KF32	E2ST	5.5	10	44	16	46	27	46	54.5	36	60	40.5	24	5.7	48.5	57	43	21144FIL
KF32	E5ST	5.5	10	65	16	46	27	46	54.5	36	60	40.5	45	5.7	48.5	57	43	21151FIL
KF40	E1ST	7	-	38	23	61	34	53	60	45	60	45	10	-	56	63	48	21133FIL
KF40	E2ST	7	-	51	23	61	34	53	60	45	60	45	23	-	56	63	48	21145FIL
KF40	E4ST	7	-	70	23	61	34	53	60	45	60	45	42	-	56	63	48	21150FIL
KF50	E1ST	7	-	48	23	71	34	59	67	45	60	52	10	-	64	72	57	21134FIL
KF50	E2ST	7	-	57	23	71	34	59	67	45	60	52	19	-	64	72	57	21146FIL
KF50	E3ST	7	-	72	23	71	34	59	67	45	60	52	34	-	64	72	57	21149FIL

Linear Drive Accessories

ø 16-80 mm
Adaptor Profile

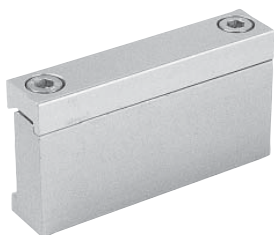


For Linear-drive

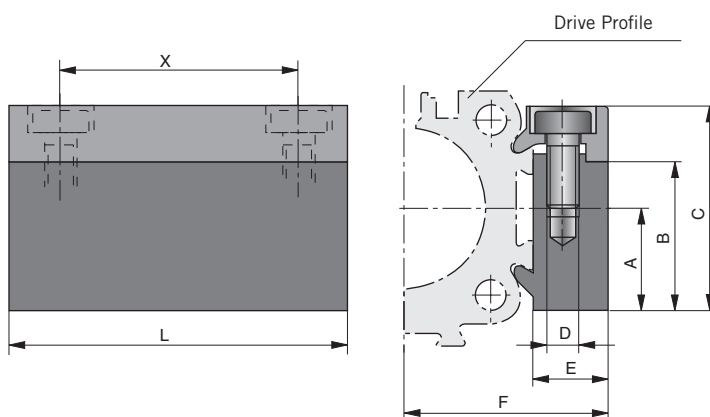
- Series OSPP-C, OSPP-C KF

Adaptor Profile

- A universal attachment for mounting of valves etc.
- Solid material.



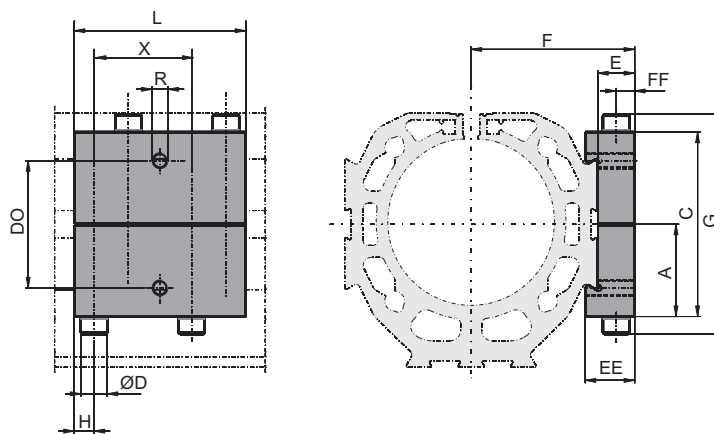
Series OSPP16-C to 50-C



Dimension Table [mm]

For Series	A	B	C	D	E	F	L	X	Order No.	
									Standard	Stainless
OSPP16-C	14	20.5	28	M3	12	27	50	38	20432FIL	20438FIL
OSPP25-C	16	23	32	M5	10.5	30.5	50	36	20006FIL	20186FIL
OSPP32-C	16	23	32	M5	10.5	36.5	50	36	20006FIL	20186FIL
OSPP40-C	20	33	43	M6	14	45	80	65	20025FIL	20267FIL
OSPP50-C	20	33	43	M6	14	52	80	65	20025FIL	20267FIL

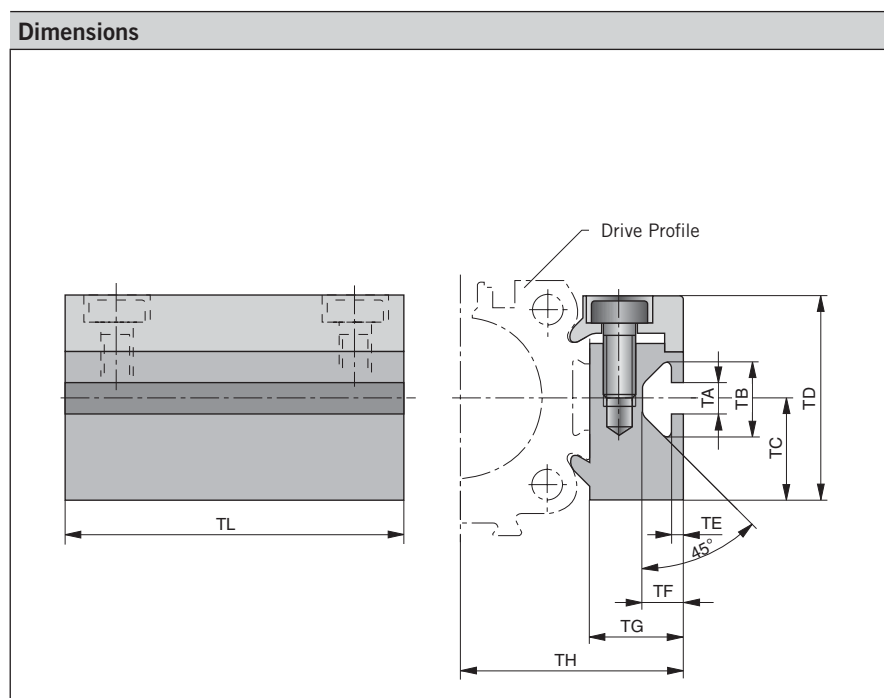
Series OSPP63-C to 80-C



Dimension Table [mm]

For Series	A	C	ØD	E	F	G	H	L	R	X	DO	EE	FF	Order No.*
OSPP63-C	34.8	70	10	14	62	83	7.5	65	M6	37	48	18.7	7	20792FIL
OSPP80-C	34.8	70	10	14	75	83	7.5	65	M6	37	48	18.7	7	20792FIL

* Stainless version



Linear Drive Accessories

ø 16-50 mm

T-Slot Profile



For Linear-drive

- Series OSPP-C, OSPP-C KF

T-Slot Profile

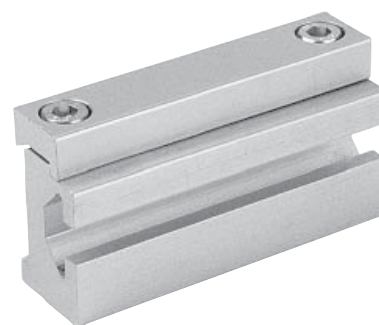
- A universal attachment for mounting with standard T-Nuts

Dimension Table [mm]

ForSeries	TA	TB	TC	TD	TE	TF	TG	TH	TL	OrderNo.	
										Standard	Stainless
OSPP16-C	5	11.5	14	28	1.8	6.4	12	27	50	20433FIL	20439FIL
OSPP25-C	5	11.5	16	32	1.8	6.4	14.5	34.5	50	20007FIL	20187FIL
OSPP32-C	5	11.5	16	32	1.8	6.4	14.5	40.5	50	20007FIL	20187FIL
OSPP40-C	8.2	20	20	43	4.5	12.3	20	51	80	20026FIL	20268FIL
OSPP50-C	8.2	20	20	43	4.5	12.3	20	58	80	20026FIL	20268FIL

Following T-nuts from the company ITEM could be used:

ForSeries	T-nutSt5	T-nutSt8
OSPP16-C to 32-C	•	
OSPP40-C to 50-C		•



Linear Drive Accessories Ø 16 – 80 mm Magnetic Switches P8S-G



The next generation of T-slot switches is appealing due to its ease of attachment without the use of special tools. Due to the new electronics, the hysteresis is especially narrow, allowing for a highly accurate switching point.

Magnetic switches are used for electrical sensing of the position of the piston, e.g. at its end positions. They can also be used for sensing of intermediate positions.

Sensing is contactless, based on magnets which are built-in as Standard. A yellow LED indicates operating status.

The magnetic switches are attached with an adapter directly in the dovetail groove of the OSP cylinder.

The possible operating speed of the load carrier or carrier bolt must account for the minimum response time of downstream devices. Accordingly, the switching distance is included in the calculation.

$$\text{Min. response time} = \frac{\text{Switching distance}}{\text{Piston speed}}$$



Characteristics		Series P8S-GR P8S-GE	Series P8S-GP
Characteristics	Unit	Description	
Electrical Characteristics			
Switching output / -function		Reed / NO Reed / NC	PNP / NO
Electrical configuration		2-wire	3-wire
Display LED yellow		yes (not Reed NC)	
Operating voltage Ub	V	10 - 30 AC/DC	10 - 30 DC
Voltage drop	V	≤ 3.5 (NO) ≤ 0.1(NC)	≤ 2.2
Power consumption @ Ub = 24 V switched on, without load	mA	-	≤ 10
Permanent current	mA	≤ 100 (NO) ≤ 500 (NC)	≤ 100
Max. switching capacity	W	≤ 10	≤ 6
Switching frequency	Hz	≤ 400	≤ 1,000
Hysteresis	mT	≥ 0.2	typ. 0.7
EMC following EN 60947-5-2		yes	yes
Short-circuit protection		-	yes
Reverse polarity protection		yes	yes
Power-up pulse protection		-	yes
ATEX -Certification		-	on request
Mechanical Characteristics			
Housing		PA66	
Cable type		PUR / black	
Cable cross section	mm²	2 x 0.14	3 x 0.14
Bending radius fixed	mm	≥ 30	
Bending radius moving	mm	≥ 45	
Ambient			
Protection class to EN 60529	IP	67	
Ambient temperature range 1)	°C	- 25 to + 75	
Vibration to EN 60068-2-6	G	10 to 55 Hz, 1 mm	
Shock to EN 60068-2-27	G	30, 11 ms	

¹⁾ for the magnetic switch temperature range, please take into account the surface temperature and the self-heating properties of the linear drive.

Type RST

In the type RST contact is made by a mechanical **reed switch** encapsulated in glass.

Type EST

In the type EST contact is made by an **electronic switch** – without bounce or wear and protected from pole reversal. The output is short circuit proof and insensitive to shocks and vibrations. A cable with connector and open end can be ordered separately.

Magnetic Switches RST and EST

Electrical Service Life Protective Measures

Magnetic switches are sensitive to excessive currents and inductions. With high switching frequencies and inductive loads such as relays, solenoid valves or lifting magnets, service life will be greatly reduced.

With **resistive and capacitive loads** with high switch-on current, such as light bulbs, a protective resistor should be fitted. This also applies to long cable lengths.

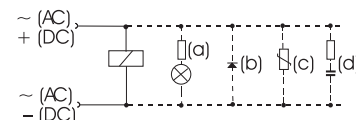
In the switching of inductive loads such

as relays, solenoid valves and lifting magnets, voltage peaks (transients) are generated which must be suppressed by protective diodes, RC loops or varistors.

Connection Examples

Load with protective circuits

- (a) Protective resistor for light bulb
- (b) Freewheel diode on inductivity
- (c) Varistor on inductivity
- (d) RC element on inductivity

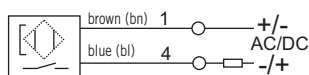


For the type EST, external protective circuits are not normally needed.

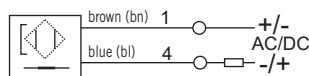
Electrical connection: cable Type RST-K

Reed 2-wire

normally open



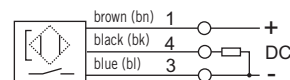
normally closed



Electrical connection: cable Type EST-K

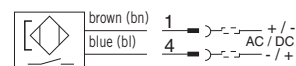
PNP 3-wire

normally open



Electrical connection: plug Type RST-S

Reed 2-wire

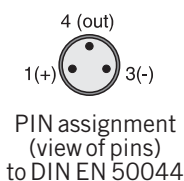
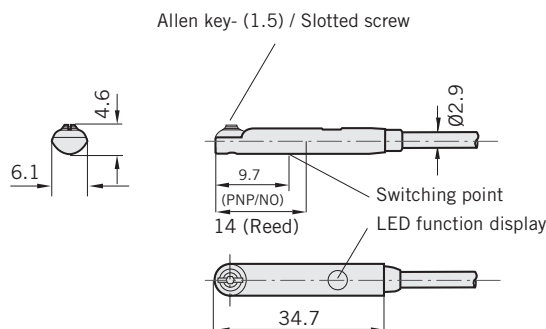


Type EST-S

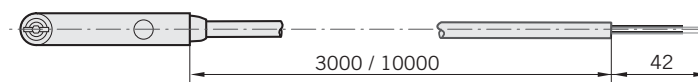
PNP 3-wire



Dimensions [mm] - Typ RST-K, EST-K - Series P8S-G



P8S-G- cable with open end



P8S-G- M8 screw connector



Installation instructions for the RST/EST magnetic switches series P8S-G

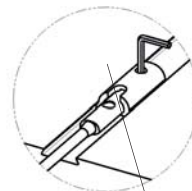
Step 1:
Insert magnetic switch
into adapter



Step 2:
Insert adapter into
cylinder dovetail slot



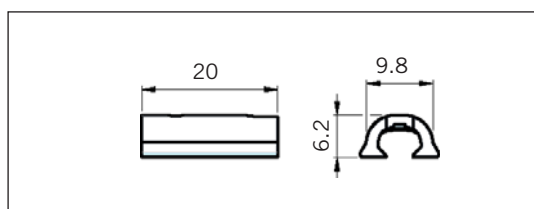
Step 3:
Tighten screw:
torque 0.15 Nm



SW=1.5

Dimensions Adapter for RST/EST Magnetic Switch Series P8S-G

for OSPP16-C to 80-C



OSPP-Classic

Order Instructions			
Version	Voltage	Type	Order No.
Magnetic switch, reed contact, normally open, LED indicator, cable 3 m	10-30 V AC / DC	RST-K	P8S-GRFAX
Magnetic switch, reed contact, normally open, LED indicator, cable 10 m	10-30 V AC / DC	RST-K	P8S-GRFDX
Magnetic switch, reed contact, normally open, screw connector M8, LED indicator, cable 0.3 m	10-30 V AC / DC	RST-S	P8S-GRCHX
Magnetic switch, reed contact, normally closed, cable 10 m	10-30 V AC / DC	RST-K	P8S-GEFRX
Magnetic switch, electronic, PNP LED indicator, cable 3 m	10-30 V DC	EST-K	P8S-GPFAX
Magnetic switch, electronic, PNP LED indicator, cable 10 m	10-30 V DC	EST-K	P8S-GPFDX
Magnetic switch, electronic, PNP screw connector M8, LED indicator, cable 0.3 m	10-30 V DC	EST-S	P8S-GPCHX

Included in delivery: 1 Magnetic Switch, 1 Adapter for T-Nut Magnetic Switch (OSPP16-C to OSPP80-C)

Accessories		
Description	Type	Order No.
Cable M8, 2.5 m without lock nut	KS 25	KY 3240
Cable M8, 5.0 m without lock nut	KS 50	KY 3241
Cable M8, 10.0 m without lock nut	KS 100	KC3140
Cable M8, 2.5 m with lock nut	KSG 25	KC 3102
Cable M8, 5.0 m with lock nut	KSG 50	KC 3104
Adapter for RST/EST magnetic switch – for OSPP16-C to OSPP80-C (pack of 10 pieces)		KL 3333

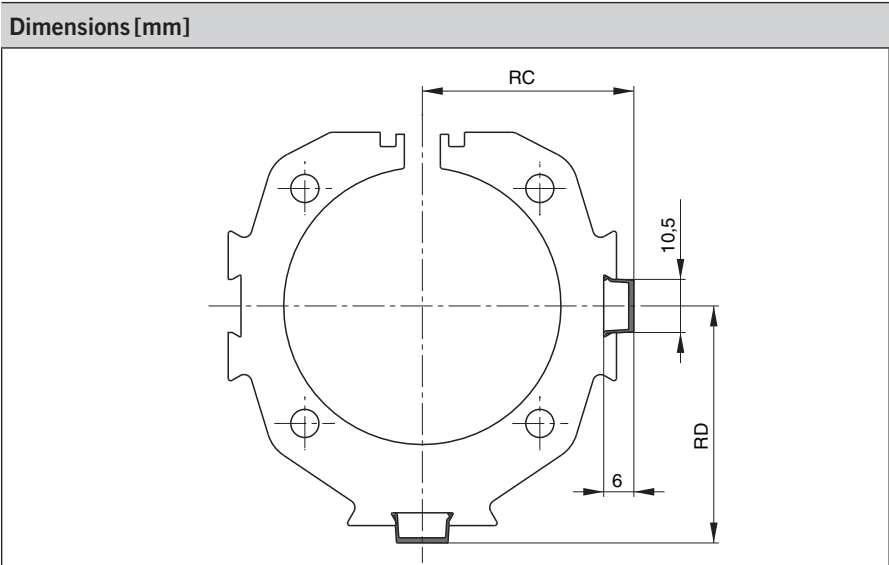
Linear Drive Accessories

∅ 16-80 mm

Cable Cover

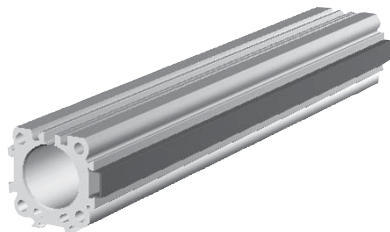
For clean guidance of magnetic switch
cables along the cylinder body.
Contains a maximum of 3 cables with
diameter 3 mm.

Material: Plastic
Temperature Range: -10 to +80 °C



Dimension Table and Order Instructions			
For Series	Dimensions [mm]		Order No.
	RC	RD	
OSPP16-C	18.5	19	13039FIL Minimal length: 1 m Max. profile length: 2 m Multiple profiles can be used.
OSPP25-C	23.5	25.5	
OSPP32-C	29.5	32	
OSPP40-C	34.5	37.5	
OSPP50-C	41.5	46.5	
OSPP63-C	51.5	57.5	
OSPP80-C	64.5	70.5	

Note: Order instructions cable cover
in conjunction with Basic Cylinder OSPP-C see page 12 pos. 22
in conjunction Linear Drive with guide OSPP-C KF see page 19 pos. 22



Notes:

The right to introduce technical
modifications is reserved

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, St. Florian
Tel: +43 (0)7224 66201
parker.austria@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/NL/LU – Benelux, Hendrik Ido Ambacht
Tel: +31 (0)541 585 000
parker.nl@parker.com

BG – Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Piraeus
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IL – Israel
Tel: +39 02 45 19 21
parker.israel@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Borås
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

US – USA, Cleveland
Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

CN – China, Shanghai
Tel: +86 21 2899 5000

HK – Hong Kong
Tel: +852 2428 8008

IN – India, Mumbai
Tel: +91 22 6513 7081-85

JP – Japan, Tokyo
Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul
Tel: +82 2 559 0400

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

SG – Singapore
Tel: +65 6887 6300

TH – Thailand, Bangkok
Tel: +662 186 7000

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos
Tel: +55 800 727 5374

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

