



ORIGA SYSTEM PLUS OSP-P

The “**ORIGINAL**” rodless pneumatic cylinders



A **NEW** Modular Linear Drive System

With this second generation linear drive Parker Origa offers design engineers complete flexibility. The well known ORIGA cylinder has been further developed into a combined linear actuator, guidance and control package. It forms the basis for the new, versatile ORIGA SYSTEM PLUS linear drive system.

All additional functions are designed into modular system components which replace the previous series of cylinders.

- Compact: guide rail integrated in the cylinder profile
- Long lifetime and high service intervals
- High loads and moments
- Easy to re-adjust through simple design => easy to maintain
- Integrated scraper system and grease nipples
- High service life $\geq 8,000\text{km}$
- Low friction forces \geq high action forces
- Wide speed range (0,005 – 30m/s)
- Modular System – easy to mount guides, brakes and displacement measuring system



Parker Origa rodless pneumatic cylinders are the first rodless cylinders that have been approved for use in potentially explosive atmospheres in Equipment Group II, Category 2 GD.

The Cylinders are to the ATEX Certification 94/9/EG (ATEX 95) for Pneumatic Components.

For full details and information on OSP-P range of rodless cylinders please see catalogue no.: P-A4P011



Special Versions



for use in Ex-Areas



Low Temperature Version
for temperatures up to
-40°C



for Clean Room Applications
certified to
DIN EN ISO 14644-1



Slow Speed Version
 $v = 0.005 - 0.2 \text{ m/s}$



Stainless steel version
for special applications



High Speed Version
 $v_{max.} = 30 \text{ m/s}$



with special pneumatic
cushioning system for cycle
time optimization,
for $\varnothing 16$ to 50 mm
- on request



Cylinders with extreme long
strokes
Stroke length up to 41 m



High Temperature Version
for temperatures up to
+120°C

* Information on electrical linear drives series OSP-E, please refer to catalogue P-A4P017E

<p>Basic Linear Drive Standard Version</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E* Belt drive Belt drive with integrated Guides Vertical belt drive with recirculating ball bearing guide Series OSP-E* Screw drive (Ball Screw, Trapezoidal Screw) 		<p>Basic Guide</p> <ul style="list-style-type: none"> Series OSP-P-BG 	
<p>Air Connection on the End-face or both at One End</p> <ul style="list-style-type: none"> Series OSP-P 		<p>Duplex Connection</p> <ul style="list-style-type: none"> Series OSP-P 	
<p>Long-Stroke Cylinders for strokes up to 41 m</p> <ul style="list-style-type: none"> Series OSP-P 		<p>Multiplex Connection</p> <ul style="list-style-type: none"> Series OSP-P 	
<p>Clean Room Cylinder certified to DIN EN ISO 146644-1</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E..SB 		<p>Linear Guides – SLIDELINE</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Screw drive* 	
<p>Products for ATEX Areas</p> <ul style="list-style-type: none"> Series OSP-P Rodless Cylinders 		<p>Linear Guides – POWERSLIDE</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 	
<p>Products for ATEX Areas</p> <ul style="list-style-type: none"> Series OSP-P Rodless Cylinders with Linear Guide SLIDELIN 		<p>Linear Guides – PROLINE</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 	
<p>Bi-parting Version</p> <ul style="list-style-type: none"> Series OSP-P 		<p>Linear Guides – STARLINE</p> <ul style="list-style-type: none"> Series OSP-P 	
<p>Integrated 3/2 Way Valves</p> <ul style="list-style-type: none"> Series OSP-P 		<p>Linear Guides – KF</p> <ul style="list-style-type: none"> Series OSP-P 	
<p>Clevis Mounting</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 		<p>Heavy Duty Linear Guides – HD</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Screw drive* 	
<p>End Cap Mounting</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 		<p>Intermediate stop module – ZSM</p> <ul style="list-style-type: none"> Series OSP-P 	
<p>Mid-Section Support</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 		<p>Brakes</p> <ul style="list-style-type: none"> Active Brakes Passive Brakes 	
<p>Inversion Mounting</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* 		<p>Magnetic Switches</p> <ul style="list-style-type: none"> Series OSP-P Series OSP-E Belt drive* Series OSP-E Screw drive* ATEX-Versions 	
<p>Variable Stop VS</p> <ul style="list-style-type: none"> Series OSP-P with Linear Guide STL, KF, HD 		<p>SENSOFLEX-Measuring system</p> <ul style="list-style-type: none"> Series SFI-plus 	

Origa System Plus

- Innovation from a proven design

A completely new generation of linear drives which can be simply and neatly integrated into any machine layout.

A NEW MODULAR LINEAR DRIVE SYSTEM

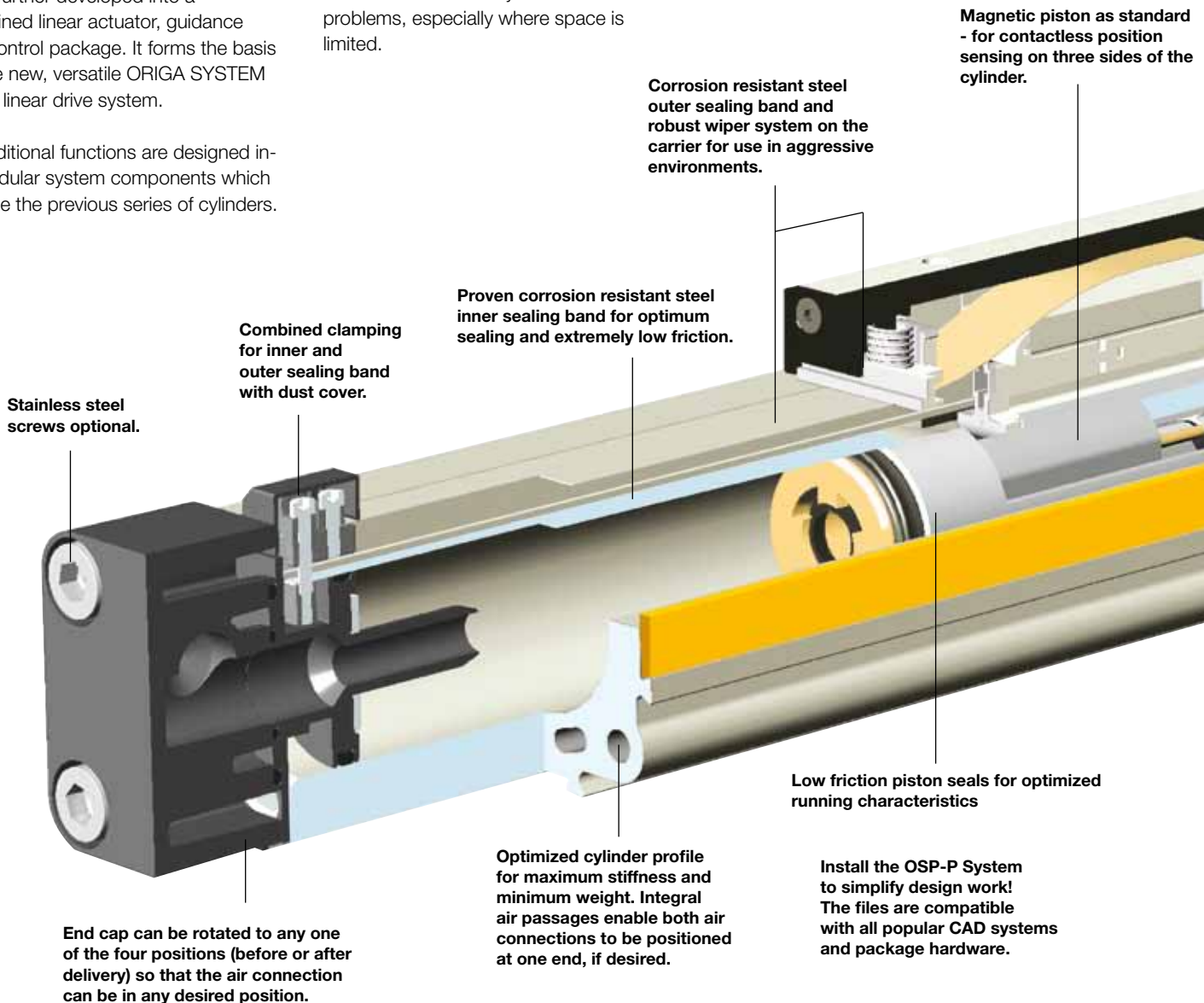
With this second generation linear drive Parker Origa offers design engineers complete flexibility. The well known ORIGA cylinder has been further developed into a combined linear actuator, guidance and control package. It forms the basis for the new, versatile ORIGA SYSTEM PLUS linear drive system.

All additional functions are designed into modular system components which replace the previous series of cylinders.

MOUNTING RAILS ON 3 SIDES

Mounting rails on 3 sides of the cylinder enable modular components such as linear guides, brakes, valves, magnetic switches etc. to be fitted to the cylinder itself. This solves many installation problems, especially where space is limited.

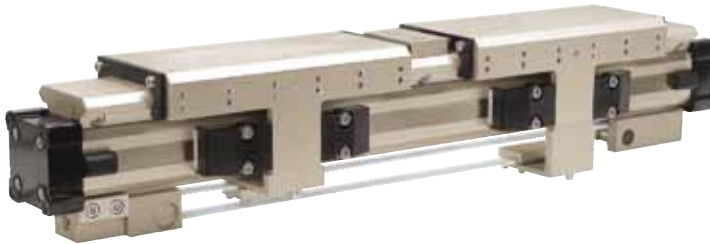
The modular system concept forms an ideal basis for additional customer-specific functions.



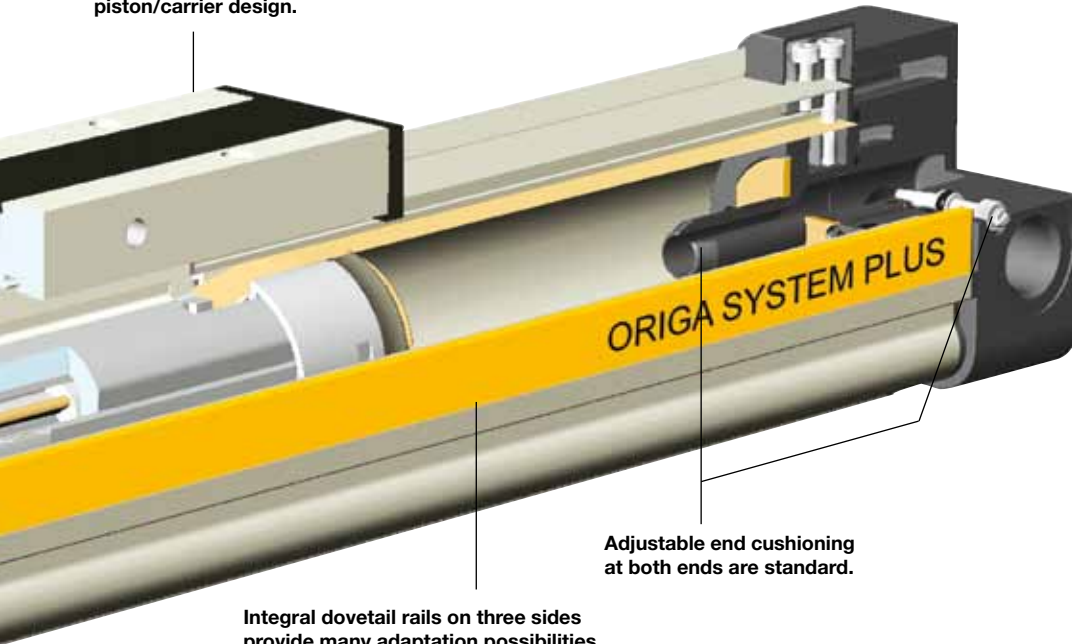
Clean Room Version
certified to DIN EN ISO 14644-1



Rodless Cylinder
for synchronized bi-parting movements



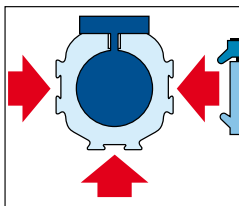
New low profile piston/carrier design.



Adjustable end cushioning at both ends are standard.

Integral dovetail rails on three sides provide many adaptation possibilities (linear guides, magnetic switches, etc.).

Modular system components are simply clamped on.



INTEGRATED VOV VALVES
The complete compact solution for optimal cylinder control.



SENSOFLEX SFI-plus
incremental measuring system with 0,1 (1,0) mm resolution.



BASIC GUIDE
Compact, robust plain bearing guide for medium loads.



SLIDELINE
Guide system for moderate loads. Optional with Active- / Passive-Brake



POWERSLIDE
Roller guide for high loads and rough conditions



PROLINE
The compact aluminium roller guide for high loads and velocities. Optional with Active- / Passive-Brake.



STARLINE
Recirculating ball bearing guide for very high loads and precision.



KF GUIDE
Recirculating ball bearing guide – the mounting dimensions correspond to FESTO Type: DGPL-KF



HEAVY DUTY GUIDE HD
for heavy duty applications.



VARIABLE STOP VS
The variable stop provides simple stroke limitation.



PASSIVE BRAKE
reacts automatically to pressure failure.

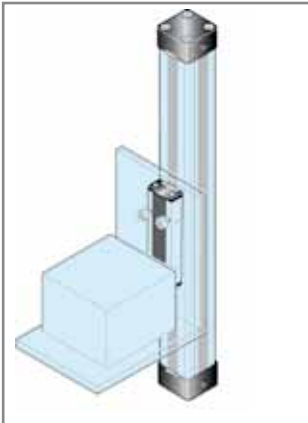


ACTIVE BRAKE
pneumatic brake for secure, positive stopping at any position.

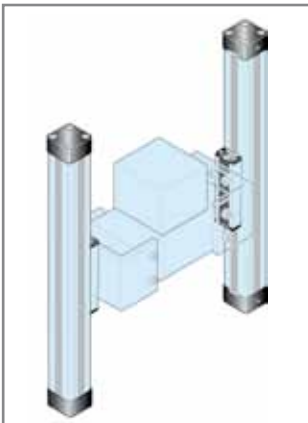
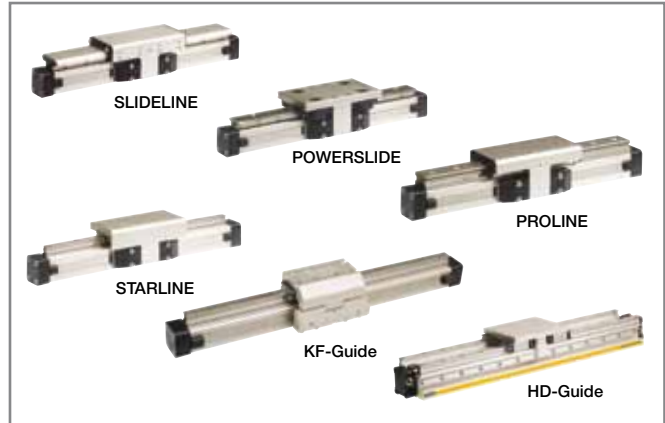


OSP-P Application examples

ORIGA SYSTEM PLUS – rodless linear drives offer maximum flexibility for any application.



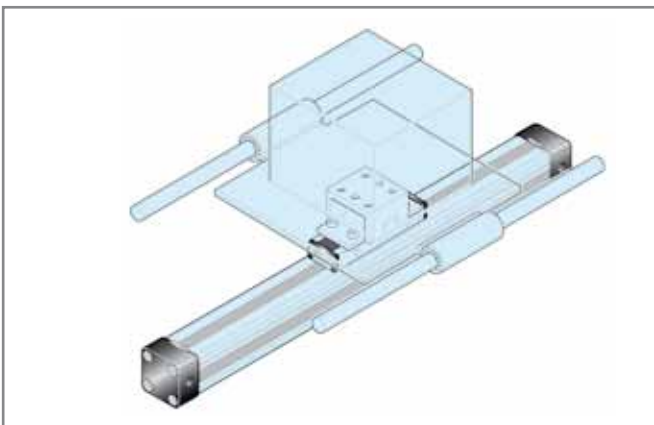
The high load capacity of the piston can cope with high bending moments without additional guides.



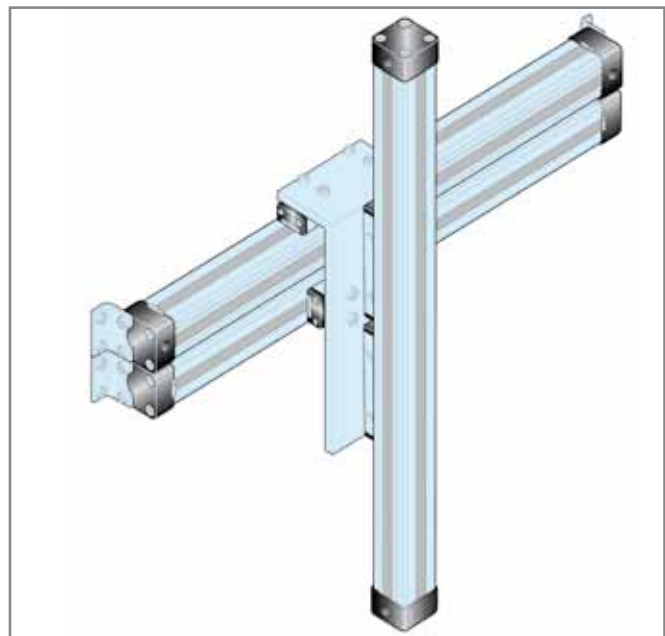
The mechanical design of the OSP-P allows synchronised movement of two cylinders.

Integrated guides offer optimal guidance for applications requiring high performance, easy assembly and maintenance free operation.

Optimal system performance by combining multi-axis cylinder combinations.



When using external guides, the clevis mounting is used to compensate for deviations in parallelism.



For further information and assembly instructions, please contact your local Parker Origa dealer.

Options and Accessories for system versatility

Series OSP-P

STANDARD VERSIONS OSP-P10 to P80

Standard carrier with integral guidance. End cap can be rotated 4 x 90° to position air connection on any side.
Magnetic piston as standard.
Dovetail profile for mounting of accessories and the cylinder itself.



LONG-STROKE VERSION

For extremely long strokes up to max. 41m



BASIC CYLINDER OPTIONS

CLEAN ROOM CYLINDERS

For use in clean room applications, certified with the IPA-Certificate (to DIN EN ISO 14644-1).
The special design of the linear drive enables all emissions to be led away.



ATEX-Version

For use in Ex-Areas



BOTH AIR CONNECTIONS AT ONE END

For simplified tubing connections and space saving.



STAINLESS VERSION

For use in constantly damp or wet environments. All screws are A2 quality stainless steel (material no.1.4301 / 1.4303)



INTEGRATED VOE VALVES

The complete compact solution for optimal cylinder control.



SLOW SPEED OPTIONS

Specially formulated grease lubrication facilitates slow, smooth and uniform piston travel in the speed range from 0.005 to 0.2 m/s. Minimum achievable speeds are dependent on several factors. Please consult our technical department.
Slow speed lubrication in combination with Viton® on demand. Oil free operation preferred.



DUPLEX CONNECTION

The duplex connection combines two OSP-P cylinders of the same size into a compact unit with high performance.



VITON® VERSION

For use in an environment with high temperatures or in chemically aggressive areas.
All seals are made of Viton®.
Sealing bands: Stainless steel.



MULTIPLEX CONNECTION

The multiplex connection combines two or more OSP-P cylinders of the same size into one unit.
The orientation of the carriers can be freely selected.



END-FACE AIR CONNECTION

To solve special installation problems.



ACCESSORIES

MAGNETIC SWITCHES TYPE RS, ES, RST, EST

For electrical sensing of end and intermediate piston positions, also in EX-Areas.



MOUNTING FOR OSP-P10 UP TO P80

CLEVIS MOUNTING

Carrier with tolerance and parallelism compensation for driving loads supported by external linear guides.



MID-SECTION SUPPORT

For supporting long cylinders or mounting the cylinder by its dovetail rails.



END CAP MOUNTING

For end-mounting of the cylinder.



INVERSION MOUNTING

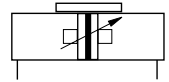
The inversion mounting transfers the driving force to the opposite side, e.g. for dirty environments.



Rodless Pneumatic Cylinder

Ø 10-80 mm

OSP
ORIGA
SYSTEM
PLUS




Standard Versions:

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

Long-Stroke Cylinders for stroke lengths up to 41 m
See page 152

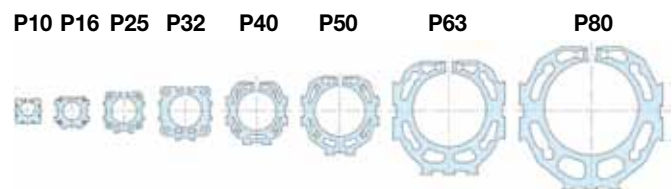
Special Versions:

- with special pneumatic cushioning system (on request)
- Clean room cylinders
- ATEX-Version 
- Stainless steel screws
- Slow speed lubrication
- Viton® seals
- Both air connections on one end
- Air connection on the end-face
- Integrated Valves



- End cap can be rotated 4 x 90° to position air connection as desired
- Free choice of stroke length up to 6000 mm, Long-Stroke version (Ø50-80mm) for stroke lengths up to 41 m

Size Comparison

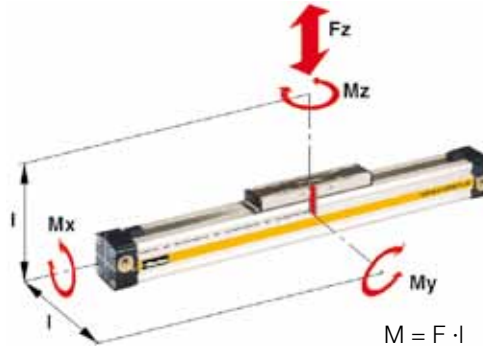


Characteristics	Description
General Features	
Type	Rodless cylinder
Series	OSP-P
System	Double-acting, with cushioning, position sensing capability
Mounting	See drawings
Air Connection	Threaded
Ambient temperature range	-10 °C Other temperature ranges +80 °C on request
Installation	In any position
Medium	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 / Plastic (P10)
Sealing bands	Corrosion resistant steel
Seals	NBR (Option: Viton®)
Screws	Galvanized steel Option: stainless steel
Dust covers, wipers	Plastic
Max. operating pressure p_{max}	8 bar

Loads, Forces and Moments

Choice of cylinder is decided by:

- Permissible loads, forces and moments
- Performance of the pneumatic end cushions.



$M = F \cdot l$
Bending moments are calculated from the centre of the linear actuator

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.

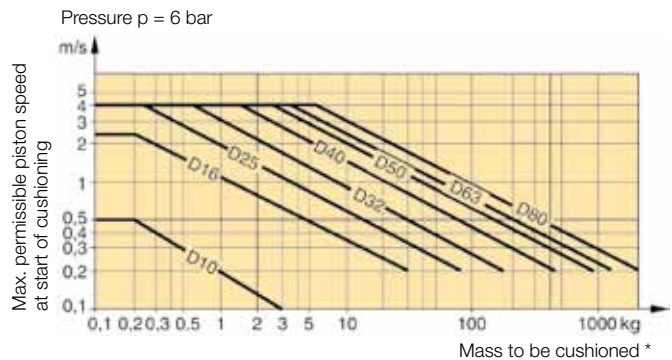
When working out the action force required, it is essential to take into account the friction forces generated by the specific application or load.

Cylinder-Series [mm Ø]	Theoretical Action Force at 6 bar [N]	effektive Action Force F_A at 6 bar [N]	max. Moments			max. Load F [N]	Cushion Length [mm]
			Mx [Nm]	My [Nm]	Mz [Nm]		
OSP-P10	47	32	0.2	1	0.3	20	2.5 *
OSP-P16	120	78	0.45	4	0.5	120	11
OSP-P25	295	250	1.5	15	3	300	17
OSP-P32	483	420	3	30	5	450	20
OSP-P40	754	640	6	60	8	750	27
OSP-P50	1178	1000	10	115	15	1200	30
OSP-P63	1870	1550	12	200	24	1650	32
OSP-P80	3016	2600	24	360	48	2400	39

* A rubber element (non-adjustable) is used for end cushioning.
To deform the rubber element enough to reach the absolute end position would require a Δp of 4 bar!

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.



Weight (mass) kg

Cylinder series (Basic cylinder)	Weight (Mass) kg	
	At 0 mm stroke	per 100 mm stroke
OSP-P10	0.087	0.052
OSP-P16	0.22	0.1
OSP-P25	0.65	0.197
OSP-P32	1.44	0.354
OSP-P40	1.95	0.415
OSP-P50	3.53	0.566
OSP-P63	6.41	0.925
OSP-P80	12.46	1.262

* For cylinders with linear guides or brakes, please be sure to take the mass of the carriage or the brake housing into account.

If the permitted limit values are exceeded, either additional shock absorbers should be fitted in the area of the centre of gravity or you can consult us about our special cushioning system – we shall be happy to advise you on your specific application.

Options - Basic Cylinder

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

Piston-Ø

10
16
25
32
40
50
63
80

Stroke Length

In mm (5 digits)

Piston Mounting

0	without
1	clevis mounting

add. Guide Carriage

0	without
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Measuring system

0	without
X	SFI 0,1 mm
Y	SFI 1 mm

Screws

0	standard
1	Stainless

Cushioning

0	standard
1	max. length ³⁾

Version / Piston

0	standard
1	Tandem

Lubrication

0	standard
1	slow speed ²⁾³⁾

End cap position

0	l+r0° = in front
1	l+r90° = underneath
2	l+r180° = at the back
3	l+r270° = same side as outerband
4	l90° = underneath; r0° = in front
5	l180° = at the back; r0° = in front
6	l270° = same side as outerband; r0° = in front
7	l0° = in front; r90° = underneath
8	l180° = at the back; r90° = underneath
9	l270° = same side as outerband; r90° = underneath
A	l0° = in front; r180° = at the back
B	l90° = underneath; r180° = at the back
C	l270° = same side as outerband; r180° = at the back
D	l0° = in front; r270° = same side as outerband
E	l90° = underneath; r270° = same side as outerband
F	l180° = at the back; r270° = same side as outerband

Guides/ Brakes/ Inversion

0	without
A	Activebrake AB Ø25-80
M	Inversion Ø16-80
N	Duplex Ø25,32,40,50

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
3	left stand. right end face
4	right stand. left end face
A	3/2 Way valve VOE 24V = Ø25,32,40,50
B	3/2 Way valve VOE 230V~/110V= Ø25,32,40,50
C	3/2 Way valve VOE 48V = Ø25,32,40,50
E	3/2 Way valve VOE 110V- Ø25,32,40,50

Seals

0	standard (NBR)
1	Viton ^{®1)}

End cap position (air connection)

270° same side as outerband
 180° at the back
 0° in front
 90° underneath

Cylinder R (right end side)

270° same side as outerband
 180° at the back
 0° in front
 90° underneath

Cylinder L (left end side)

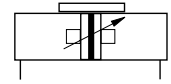
270° same side as outerband
 180° at the back
 0° in front
 90° underneath

1) Viton with VOE not available.

2) Slow speed lubrication in combination with Viton® seals on demand

3) „Lubrication slow speed“ in combination with „max. cushioning length“ not possible.

**Long Stroke Cylinder Ø 50-80 mm
for strokes up to 41 m**



Standard Versions:

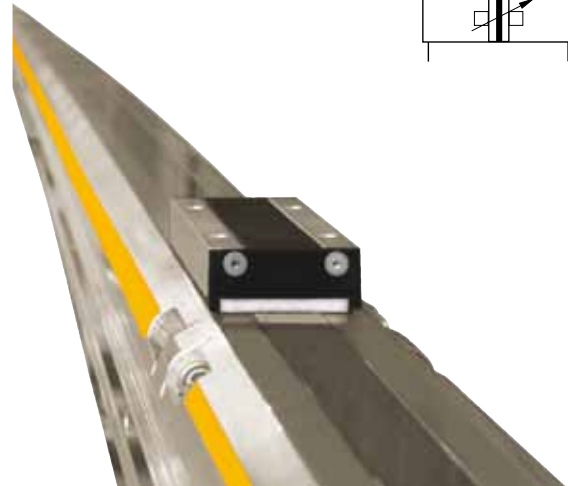
- Double-acting with adjustable end cushioning
- With magnetic piston for position sensing

Special Versions:

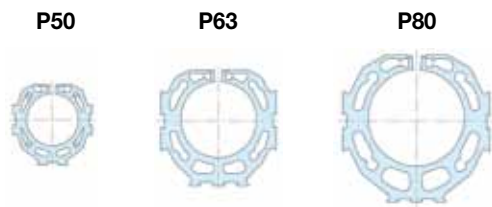
- Stainless steel screws
- Slow speed lubrication
- Viton® seals

Options:

- Displacement measuring system SFI-plus
- Active brake AB..



Size Comparison



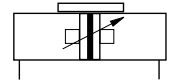
Weight (mass) kg

Cylinder series (Basic cylinder)	Weight (Mass) kg	
	At 0 mm stroke	per 100 mm stroke
OSP-P50LS	3.53	0.566
OSP-P63LS	6.41	0.925
OSP-P80LS	12.46	1.262

Characteristics	Description
General Features	
Type	Rodless cylinder
Series	OSP-P
System	Double-acting, with cushioning, position sensing capability
Mounting	See drawings
Air Connection	Threaded
Ambient temperature range T_{min} to T_{max}	10 °C Other temperature ranges +40 °C on request
Installation Medium	Vertical, horizontal (piston at top or at bottom) 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	Anodized aluminium
Sealing bands	Corrosion resistant steel
Seals	NBR (Option: Viton®)
Screws	Galvanized steel Option: stainless steel
Dust covers, wipers	Plastic
Max. operating pressure p_{max}	8 bar
Max. speed v	2 m/s

Clean Room Cylinder Ø 16-32 mm Certified to DIN EN ISO 14644-1

OSP
ORIGA
SYSTEM
PLUS



Standard Versions:

- Double-acting with adjustable end cushioning
- With magnetic piston for position sensing
- Stainless steel screws

Special Versions:

- Slow speed lubrication
- Viton® seals

Features:

- Clean room classification
ISO Class 4 at $v_m = 0.14$ m/s
ISO Class 5 at $v_m = 0.5$ m/s
- Suitable for smooth slow speed operation up to
 $v_{min} = 0.005$ m/s
- Optional stroke length up to 1200 mm
(longer strokes on request)
- Low maintenance
- Compact design with equal force and velocity
in both directions
- Aluminium piston with bearing rings to support
high direct and cantilever loads



Size Comparison



Weight (mass) kg

Cylinder series (Basic cylinder)	At 0 mm stroke	Weight (Mass) kg per 100 mm stroke
OSP-P16	0.22	0.1
OSP-P25	0.65	0.197
OSP-P32	1.44	0.354

Characteristics	Description
General Features	
Type	Rodless cylinder
Series	OSP-P
System	Double-acting, with cushioning, position sensing capability
Mounting	See drawings
Air Connection	Threaded
Ambient temperature range	T_{min} -10 °C Other temperature ranges T_{max} +80 °C on request
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	Stainless steel
Covers	Anodised aluminium
Guide plate	Plastic
Max. operating pressure p_{max}	8 bar

Options - Clean Room Cylinders

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

Piston-Ø	
16	
25	
32	

Stroke Length	
in mm	
(5 digits) ²⁾	

Piston Mounting	
0	without

add. Guide Carriage	
0	without

Measuring system	
0	without

Screws	
1	Stainless

Cushioning	
0	Standard

Version / Piston	
4	Clean room

Lubrication	
0	Standard
1	Slow speed ¹⁾

End cap position	
0	L+R 0° = in front

Guides / Brakes / Inversion	
0	without

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

Air Connection	
7	End cap Clean room

Seals	
0	Standard (NBR)
1	Viton®

¹⁾ The combination „Slow speed lubrication“ and „Viton® sealings“ are available on request.
²⁾ max. stroke lengths 1200 mm, longer strokes on request.

Components for EX-Areas

Information for ATEX-Directives

The rodless pneumatic cylinders of Parker Origa are the first linear drive unit, for that Ex range in the group of equipment II, Category 2 GD are certified.

Detail informations for use pneumatic components in Ex-Areas see leaflet P-A5P060 „EU Directive 94/9/EG (ATEX 95) for Pneumatic Components“.

Rodless Cylinder Ø 10-80 mm Basic Cylinder - Series: OSP-P ... ATEX



Plain Bearing Guide Ø 16-80 mm SLIDELINE - Series: SL- ... ATEX



Technical Data (deviant to the Standard Cylinder)

Characteristics	Description
General Features	
Ambient temperature range T_{min} / T_{max}	-10 °C / +60 °C
Max. switching frequency	1 Hz (double stroke/s) Basic cylinder 0.5 Hz (1 stroke/s) Cylinder with guide
Operating pressure range p_{max}	Max. 8 bar
Max. speed v_{max}	3 m/s Basic cylinder, 2 m/s Cylinder with guide
Medium	Filtered, unlubricated compressed air – free from water and dirt to ISO 8573-1 Solids: Class 7 particle size < 40 µm for Gas Water content: pressure dew point +3 °C, class 4, but at least 5 °C below minimum operating temperature
Noise level	70 dB (A)
Information for materials	
Aluminium	See data sheet "Material"
Lubrication	See security data sheet "Grease for use in Cylinder with guides"
Sealing bands	Corrosion resistant steel

Equipment Group II Categorie 2GD

Rodless cylinder: Ⓢ II 2GD c T4 T135°C -10°C ≤ Ta ≤ +60°C

Series	Size	Stroke range	Accessories
OSP-P	Ø 10 to 80 programme	1– 6000 mm	Mountings
SLIDELINE	Ø 16 to 80 programme	1– 5500 mm	Mountings

Synchronised Rodless Cylinder

Ø 40 mm

For synchronised bi-parting movements

Type OSP-P40-SL-BP

Applications:

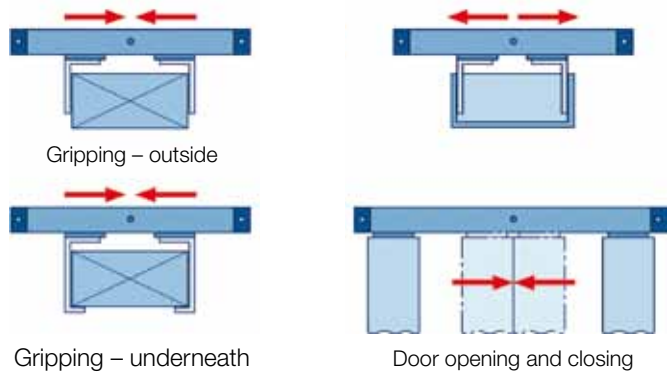
- Opening and closing operations
- Gripping of workpieces – outside
- Gripping of hollow workpieces – inside
- Gripping underneath larger objects
- Clamping force adjustable via pressure regulator

Features:

- Accurate bi-parting movement through toothed belt synchronization
- Optimum slow speed performance
- Increased action force
- Anodized aluminium guide rail with prism-form slideway arrangement
- Adjustable polymer slide units
- Combined sealing system with polymer and felt elements to remove dirt and lubricate the slideway
- Integrated grease nipples for guide lubrication



Applications:



Characteristics	Description	
General Features		
Type	Rodless cylinder for synchronised bi-parting movements	
Series	OSP-P	
System	Double-acting with end cushioning for contactless position sensing	
Guide	Slideline SL40	
Synchronisation	Toothed belt	
Mounting	See drawings	
Ambient temperature range	-10 °C to +60 °C	
Installation	In any position	
Medium	Filtered, unlubricated compressed air (other media on request)	
Lubrication	Special slow speed grease - additional oil mist lubrication not required	
Operating pressure p_{max}	6 bar	
Cushioning middle position	Elastic buffer	
Max. speed v_{max}	0.2 m/s	
Max. stroke of each stroke	500 mm	
Max. mass per guide carrier	25 kg	
Max. moments on guide carrier		
Lateral moment Mx_{max}	25 Nm	
Axial moment My_{max}	46 Nm	
Rotating moment Mz_{max}	46 Nm	
Material		
Toothed belt	Steel-corded polyurethane	
Belt wheel	Aluminium	

For more technical information see catalogue P-A4P011GB

OSP

ORIGA
SYSTEM
PLUS

Adaptive modular system

The Origa system plus – OSP – provides a comprehensive range of linear guides for the pneumatic and electric linear drives.

Advantages:

- Takes high loads and forces
- High precision
- Smooth operation
- Can be retrofitted
- Can be installed in any position

Rodless Pneumatic Cylinder Series OSP - P

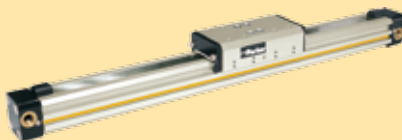
Piston diameters 10 – 80 mm

See page 149 (Standard)
See page 155 (ATEX-Version)



Plain Bearing Guide BASIC GUIDE

Series BG 25 to 40 for Linear Drive Compact, robust plain bearing guide for medium loads



Linear Guides

SLIDELINE

The cost-effective plain bearing guide for medium loads. Active/ Passive Brake optional.

Piston diameters 16 – 80 mm

See page 159 (Standard)
See page 155 (ATEX-Version)



POWERSLIDE

The roller guide for heavy loads and hard application conditions

Piston diameters 16 – 50 mm

See page 160



PROLINE

The compact aluminium roller guide for high loads and velocities.

Active/ Passive Brake optional.
Piston diameters 16 – 50 mm

See page 161



STARLINE

Recirculating ball bearing guide for very high loads and precision

Piston diameters 16 – 50 mm

See page 162



KF GUIDE

Recirculating ball bearing guide. Correspond to FESTO dimensions (Type DGPL-KF)

Piston diameters 16 – 50 mm

See page 163



HD HEAVY DUTY GUIDE

Recirculating ball bearing guide for highest loads and greatest accuracy.

Piston diameters 25 – 50 mm

See page 164



Plain Bearing Guide

BASIC GUIDE

Series BG 25 to 40 for Linear Drive

Compact, robust plain bearing guide for medium loads



Features:

- Compact: guide rail integrated in cylinder profile tube
- Robust: wiper system and grease nipples for long service life
- smooth operation
- simple to (re-) adjust
- Integrated grease nipples
- Any length of stroke up to 6000 mm (longer strokes on request)

Options:

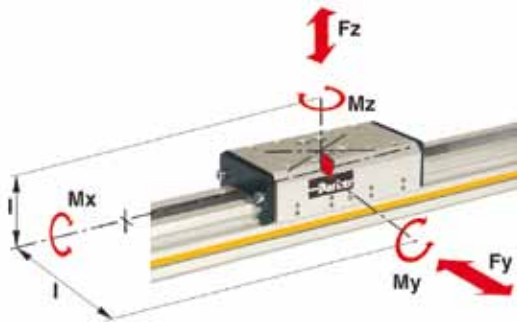
- Corrosion resistant version available on request
- VOE-Valves

Accessories:

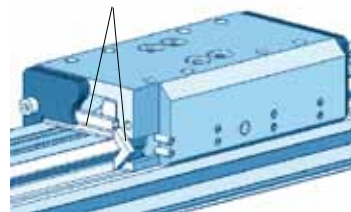
- Mid-Section Support
- End Cap Mountings
- Magnetic Switches

Loads, Forces and Moments

Loads, Forces and Moments



Composite sealing system with high-tech polymer and felt wiper elements to remove dirt and lubricate the slideways.



Technical Data

The table shows the maximum permissible values for smooth operation, which should not be exceeded even under dynamic conditions.

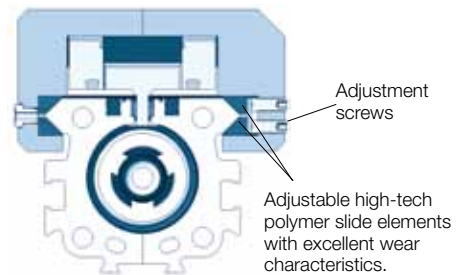
The load and moment figures apply to speeds $v < 0.2$ m/s.

*** Please note:**

In the cushioning diagram, add the mass of the guide carriage to the mass to be cushioned.

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

The sum of the loads should not exceed >1 .



Series	Max. moments [Nm]			Max. load [Nm] Fy, Fz	Mass of Basic guide [kg] at stroke	per 100mm stroke	Mass* of guide carriage [kg]	Cushion stone (mm)
	Mx	My	Mz					
BG25	10	28	28	590	1.09	0.22	0.29	17
BG32	17	43	43	850	2.26	0.38	0.69	20
BG40	39	110	110	1600	3.52	0.41	1.37	27

**Plain Bearing Guide
 SLIDELINE**

Series SL 16 to 80 for Linear Drive

Features:

- ATEX-version (without brake) is also available
 See page 155
- Anodised aluminium guide rail with prism-shaped
 slideway arrangement
- Adjustable plastic slide elements – optional with
 integral brake
- Composite sealing system with plastic and felt
 wiper elements to remove dirt and lubricate the
 slideways
- Corrosion resistant version available on request
- Any length of stroke up to 5500 mm
 (longer strokes on request)

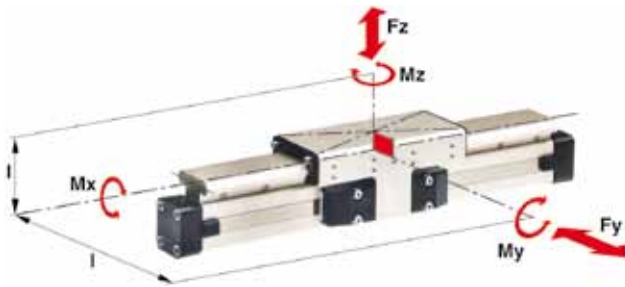


**Integrated Brake (optional)
 for series OSP-P25 to OSP-P50:**

- Actuated by pressure
- Released by exhausting and spring return

For further technical data see also Linear Drives
 OSP-P catalogue P-A4P011GB

Loads, Forces and Moments



Technical Data

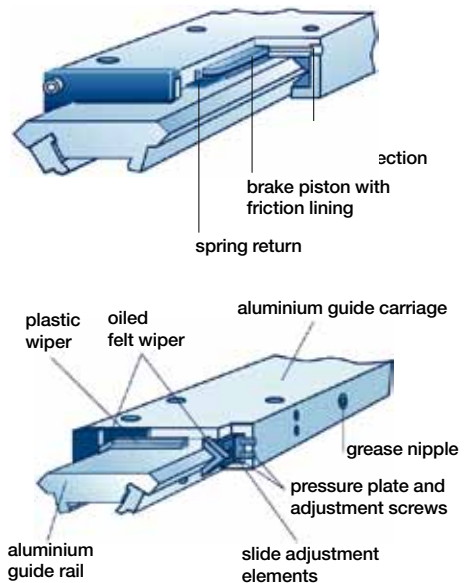
The table shows the maximum permissible values for smooth
 operation, which should not be exceeded even under dynamic
 conditions.

The load and moment figures apply to speeds $v < 0.2$ m/s.

* **Please note:**

In the cushioning diagram, add the mass of the guide
 carriage to the mass to be cushioned.

- 1) Only with integrated brake: Braking force on dry oil-free
 surface Values are decreased for lubricated slideways
- 2) Corrosion resistant fixtures available on request



Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Maximum braking force at 6 bar [N] ¹⁾ with 0 mm stroke	Mass of linear drive with guide [kg] increase per 100 mm stroke		Mass* of guide carriage [kg]	Order No. SLIDELINE ²⁾ Guide without cylinder	
		Mx	My	Mz			Without brake	With brake			
SL16	OSP-P16	6	11	11	325	–	0.57	0.22	0.23	20341FIL	–
SL25	OSP-P25	14	34	34	675	325	1.55	0.39	0.61	20342FIL	20409FIL
SL32	OSP-P32	29	60	60	925	545	2.98	0.65	0.95	20196FIL	20410FIL
SL40	OSP-P40	50	110	110	1500	835	4.05	0.78	1.22	20343FIL	20411FIL
SL50	OSP-P50	77	180	180	2000	1200	6.72	0.97	2.06	20195FIL	20412FIL
SL63	OSP-P63	120	260	260	2500	–	11.66	1.47	3.32	20853FIL	–
SL80	OSP-P80	120	260	260	2500	–	15.71	1.81	3.32	21000FIL	–

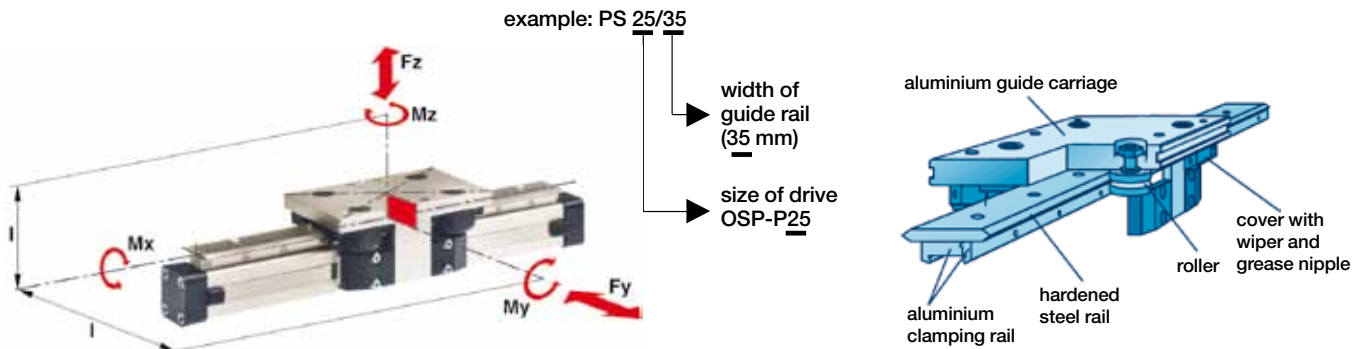
**Roller Guide
POWERSLIDE
Series PS 16 to 50 for Linear Drive**



Features:

- Anodised aluminium guide carriage with vee rollers having 2 rows of ball bearings
- Hardened steel guide rail
- Several guide sizes can be used on the same drive
- Corrosion resistance version available on request
- Max. speed $v = 3 \text{ m/s}$,
- Tough roller cover with wiper and grease nipple
- Any length of stroke up to 3500 mm, (longer strokes on request)

Loads, Forces and Moments



Technical Data

The table shows the maximum per-missible values for smooth operation, which should not be exceeded even under dynamic conditions.

For further information and technical data see data sheets for linear drives OSP-P see catalogue P-A4P011GB.

*** Please note:**

In the cushioning diagram, add the mass of the guide carriage to the mass to be cushioned.

Series	For linear drive	Max. moments [Nm]			Max. load [N]	Mass of linear drive with guide [kg]		Mass* of guide carriage [kg]	Order-No. Powerslide Guide without cylinder ¹⁾
		Mx	My	Mz		Fy, Fz	with 0 mm stroke		
PS 16/25	OSP-P16	14	45	45	1400	0.93	0.24	0.7	20285FIL
PS 25/25	OSP-P25	14	63	63	1400	1.5	0.4	0.7	20015FIL
PS 25/35	OSP-P25	20	70	70	1400	1.7	0.4	0.8	20016FIL
PS 25/44	OSP-P25	65	175	175	3000	2.6	0.5	1.5	20017FIL
PS 32/35	OSP-P32	20	70	70	1400	2.6	0.6	0.8	20286FIL
PS 32/44	OSP-P32	65	175	175	3000	3.4	0.7	1.5	20287FIL
PS 40/44	OSP-P40	65	175	175	3000	4.6	1.1	1.5	20033FIL
PS 40/60	OSP-P40	90	250	250	3000	6	1.3	2.2	20034FIL
PS 50/60	OSP-P50	90	250	250	3000	7.6	1.4	2.3	20288FIL
PS 50/76	OSP-P50	140	350	350	4000	11.5	1.8	4.9	20289FIL

¹⁾ corrosion resistance version available on request (max. loads and moments are 25% lower)

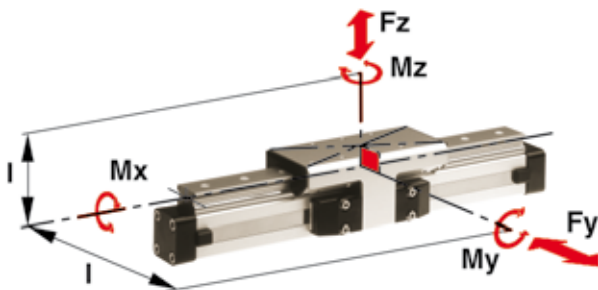
Aluminium Roller Guide PROLINE

Series PL 16 to 50 for Linear Drive

Features:

- High precision
- High velocities (10 m/s)
- Smooth operation - low noise
- Integrated wiper system
- Long life lubrication
- Compact dimensions - compatible to Slideline plain bearing guide
- Any length of stroke up to 3750 mm

Loads, Forces and Moments



Technical Data

The table shows the maximal 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. With a load factor of less than 1, service life is 8000 km

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. moments [Nm]			Max. loads [N]	Maximum braking force at 6 bar [N] ¹⁾	Mass of linear drive with guide [kg]		Mass * guide carriage [kg]	Order No. PROLINE	
		Mx	My	Mz			Fy, Fz	with 0 mm stroke		increase per 100 mm stroke	Guide without cylinder without brake
PL 16	OSP-P16	8	12	12	542	-	0.55	0.19	0.24	20855FIL	-
PL 25	OSP-P25	16	39	39	857	on request	1.65	0.40	0.75	20856FIL	20860FIL
PL 32	OSP-P32	29	73	73	1171	on request	3.24	0.62	1.18	20857 FIL	20861FIL
PL 40	OSP-P40	57	158	158	2074	on request	4.35	0.70	1.70	20858FIL	20862FIL
PL 50	OSP-P50	111	249	249	3111	on request	7.03	0.95	2.50	20859FIL	20863FIL

¹⁾ Only for version with brake:

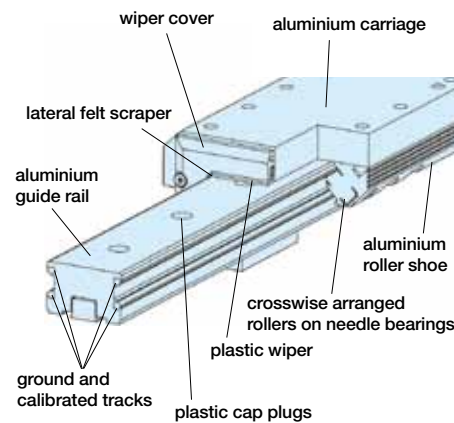
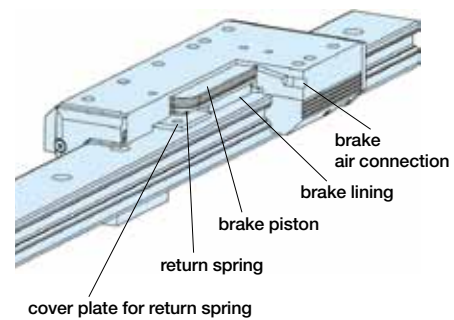
Braking surface dry – oiled surface reduces the effective braking force.



Integrated Brake (optional) for series OSP-P25 to OSP-P50:

- Actuated by pressurisation
- Released by depressurisation and spring actuation

Option - Integrated Brake



Recirculating Ball Bearing Guide STARLINE Series STL 16 to 50 for Linear Drive

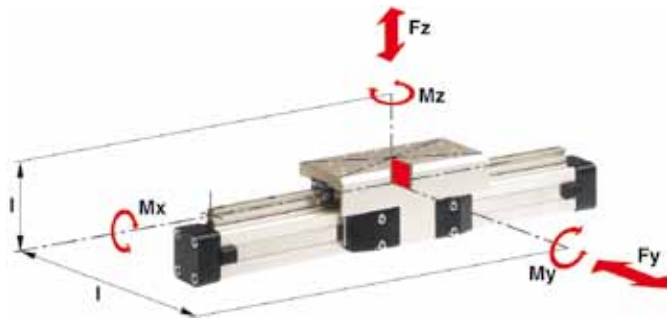


Features:

- Polished and hardened steel guide rail
- For very high loads in all directions
- High precision
- Integrated wiper system
- Integrated grease nipples
- Any length of stroke up to 3700 mm
- Anodized aluminium guide carriage – dimensions compatible with OSP guides SLIDELINE and PROLINE
- Installation height (STL16 - 32) compatible with OSP guides SLIDELINE and PROLINE

- Maximum speed
STL16: v = 3 m/s
STL25 to 50: v = 5 m/s

Loads, Forces and Moments



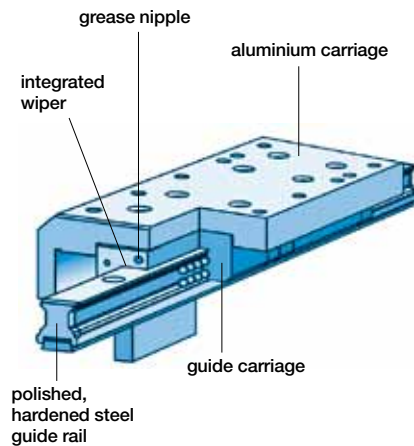
Technical Data

The table shows the maximal 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. moments [Nm]			Max. loads [N]		Mass of linear drive with guide [kg]		Mass** guide carriage [kg]	Order No. STARLINE Guide without cylinder
		Mx	My	Mz	Fy	Fz	with 0 mm stroke	increase per 100 mm stroke		
STL16	OSP-P16	15	30	30	1000	1000	0.598	0.210	0.268	21111FIL
STL25	OSP-P25	50	110	110	3100	3100	1.733	0.369	0.835	21112FIL
STL32	OSP-P32	62	160	160	3100	3100	2.934	0.526	1.181	21113FIL
STL40	OSP-P40	150	400	400	4000	7500	4.452	0.701	1.901	21114FIL
STL50	OSP-P50	210	580	580	4000	7500	7.361	0.936	2.880	21115FIL

Recirculating Ball Bearing Guide Series KF 16 to 50 for Linear Drive

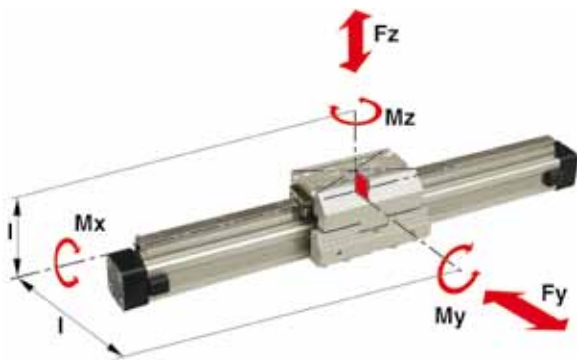


Features:

- 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

Loads, Forces and Moments



Technical Data

The table shows the maximal 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. moments [Nm]			Max. loads [N]		Mass of linear drive with guide [kg]		Mass* guide carriage [kg] size	Groove stone Thread	Order No.	
		Mx	My	Mz	Fy	Fz	stroke	with 0 mm stroke			increase per 100 mm	Groove stone cylinder
KF 16	OSP-P16	12	25	25	1000	1000	0.558	0.21	0.228	-	-	21101FIL
KF 25	OSP-P25	35	90	90	3100	3100	1.522	0.369	0.607	M5	13508FIL	21102FIL
KF 32	OSP-P32	44	133	133	3100	3100	2.673	0.526	0.896	M5	13508FIL	21103FIL
KF 40	OSP-P40	119	346	346	4000	7100	4.167	0.701	1.531	M6	13509FIL	21104FIL
KF 50	OSP-P50	170	480	480	4000	7500	7.328	0.936	2.760	M8	13510FIL	21105FIL

Heavy Duty Guide

HD

Series HD 25 to 50 for Linear Drive

Features:

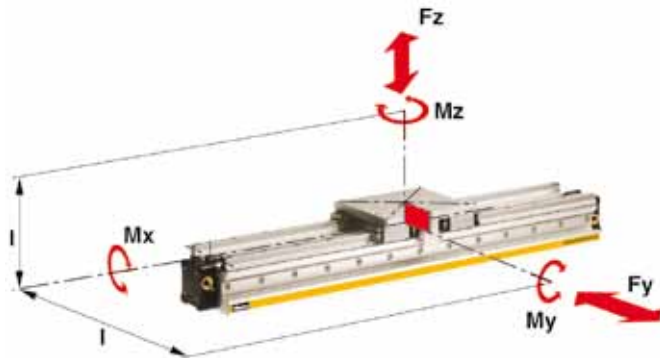
- Guide system: 4-row recirculating ball bearing guide
- Polished and hardened steel guide rail
- For highest loads in all directions
- Highest precision
- Integrated wiper system
- Integrated grease nipples
- Any lengths of stroke up to 3700 mm (longer strokes on request)
- Anodized aluminium guide carriage - dimensions compatible with OSP guide GUIDELINE
- Maximum speed $v = 5 \text{ m/s}$



Options:

- With variable stop
- With intermediate stop module

Loads, Forces and Moments



Technical Data

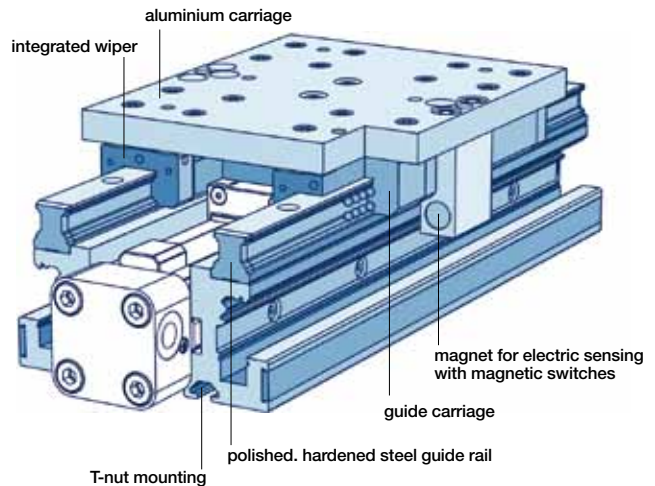
The table shows the maximal permissible loads. If multiple moments and forces act upon the cylinder simultaneously, the following equation applies:

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

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.

Version with pneumatic linear drive series OSP-P



*** Please note:**

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

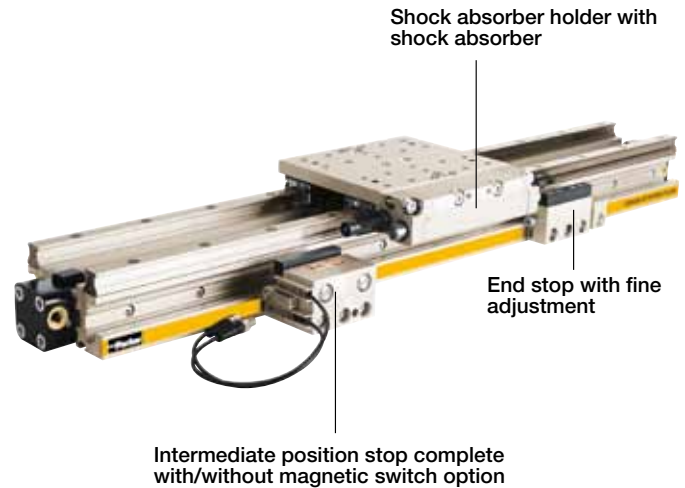
Series linear	For	Max. moments [Nm]			Max. loads with guide carriage [N]	Max. loads with guide carriage [kg]	Mass of the linear drive guide		Mass* HD guide [kg]	Order No. drive cylinder
		Mx	My	Mz			without with 0mm stroke	increase per 100 mm stroke		
HD 25	OSP-P25	260	320	320	6000	6000	3.065	0.924	1.289	21246FIL
HD 32	OSP-P32	285	475	475	6000	6000	4.308	1.112	1.367	21247FIL
HD 40	OSP-P40	800	1100	1100	15000	15000	7.901	1.748	2.712	21248FIL
HD 50	OSP-P50	1100	1400	1400	18000	18000	11.648	2.180	3.551	21249FIL

Intermediate Stop Module

Type ZSM .. HD

The intermediate stop module ZSM allows the guide carriage to stop at any desired intermediate positions with high accuracy. It can be retrofitted. Depending on the application, i.e. the number of intermediate stops, one or more intermediate position stops can be used. The intermediate position stops can be retracted and extended without the need for the guide carriage to be moved back out of position.

Therefore the guide carriage can be made to stop at the defined intermediate positions in any order.



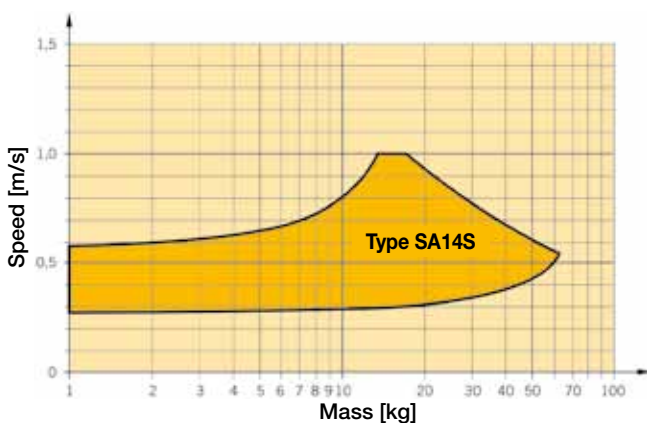
ORIGA intermediate stop module ZSM:

- Allows stopping at any intermediate positions
- Intermediate position stops can be located steplessly anywhere along the whole stroke length
- Movement to the next position without reverse stroke
- Compact unit
- Cost-effective positioning module without electrical or electronic components
- Option: end stop with fine adjustment

Operating information

Operating pressure range:	4 - 8 bar
Temperature range:	-10°C to +70°C
Intermediate position grid	85 mm

Shock Adsorbers Type SA14S



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

OSP

— ORIGA
— SYSTEM
— PLUS

Active Brakes and Passive Brakes

Active Brake
for pneumatic linear drive
Series OSP-P
Piston diameters 25 - 80 mm.

See page 167



Versions:

- ACTIVE Brake
- Plain bearing guide with integrated ACTIVE Brake
- Aluminium roller guide with integrated ACTIVE Brake
- Plain bearing guide with PASSIVE Brake
- Aluminium roller guide with PASSIVE Brake

Slideline with Active Brake
Plain bearing guide SLIDELINE - SL
with integrated ACTIVE Brake
Piston diameters 25 - 50 mm.

See page 159



Proline with Active Brake
Aluminium roller guide
PROLINE - PL with
integrated ACTIVE Brake
Piston diameters 25 - 50 mm.

See page 161



Multibrake with Slideline
MULTI BRAKE – PASSIVE Brake
with plainbearing guide
SLIDELINE - SL
Piston diameter 25 - 80 mm.

See page 168



Multibrake with Proline
MULTI BRAKE – PASSIVE Brake
with aluminium roller guide
PROLINE - PL
Piston diameters 25 - 50 mm.

See page 169



Active Brake
Series AB 25 to 80 for Linear Drive

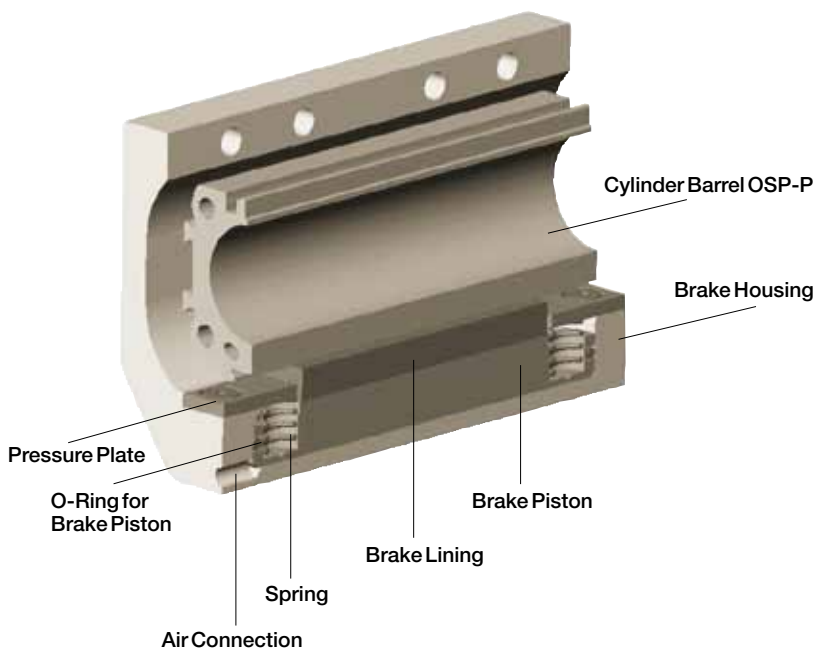


Features:

- Actuated by pressurisation
- Released by spring actuation
- Completely stainless version
- Holds position, even under changing load conditions



Function



Forces and Weights

Series	For linear drive	Max. braking force [N] ⁽¹⁾	Brake pad way [mm]	Mass [kg]		brake*
				Linear drive with brake 0 mm stroke	increase per 100mm stroke	
AB 25	OSP-P25	350	2.5	1.0	0.197	0.35
AB 32	OSP-P32	590	2.5	2.02	0.354	0.58
AB 40	OSP-P40	900	2.5	2.83	0.415	0.88
AB 50	OSP-P50	1400	2.5	5.03	0.566	1.50
AB 63	OSP-P63	2170	3.0	9.45	0.925	3.04
AB 80	OSP-P80	4000	3.0	18.28	1.262	5.82

For further technical data, please refer to the data sheets for linear drives OSP-P see catalogue P-A4P011GB.

Note:

For combinations Active Brake AB + SFI-plus + Magnetic Switch contact our technical department please.

⁽¹⁾ – at 6 bar
 both chambers pressurised with 6 bar
 Braking surface dry
 – oil on the braking surface will reduce the braking force

*** Please Note:**
 The mass of the brake has to be added to the total moving mass when using the cushioning diagram.

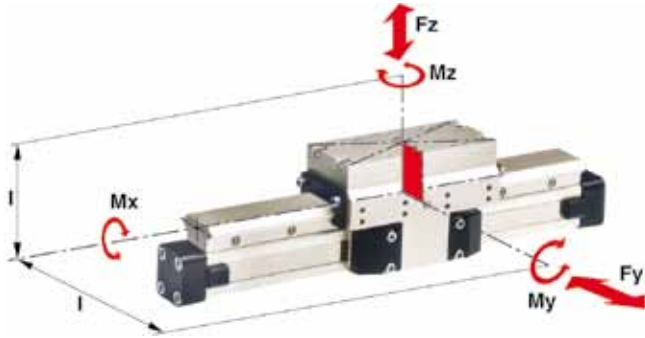
Multi-Brake Passive Brake

with plain bearing guide Slideline SL
Series MB-SL 25 to 80 for Linear Drive

Features:

- Brake operated by spring actuation
- Brake release by pressurisation
- Anodised aluminium rail, with prism shaped slide elements
- Adjustable plastic slide elements
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideway
- Replenishable guide lubrication by integrated grease nipples
- Blocking function in case of pressure loss
- Intermediate stops possible

Loads, Forces and Moments



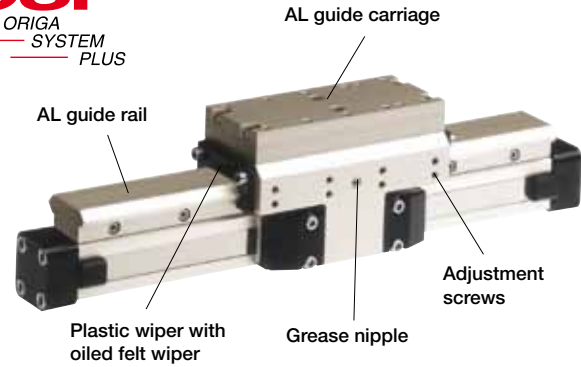
Technical Data

The 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 $v < 0.2$ m/s.
Operating pressure 4.5 - 8 bar
A pressure of 4.5 bar is required to release the brake.

For further technical information, please refer to the data sheets for linear drives OSP-P see catalogue P-A4P011GB.

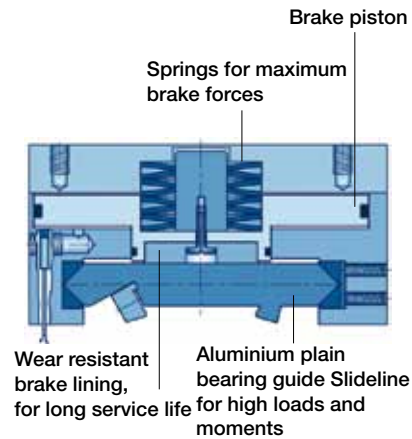
Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Max. brake force [N] ¹⁾	Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Order No. – MB-SL Guide with passive brake without cylinder*
		Mx	My	Mz			with 0 mm stroke	increase per 100 mm stroke		
MB-SL 25	OSP-P25	14	34	34	675	470	2.04	0.39	1.10	20796FIL
MB-SL 32	OSP-P32	29	60	60	925	790	3.82	0.65	1.79	20797FIL
MB-SL 40	OSP-P40	50	110	110	1500	1200	5.16	0.78	2.34	20798FIL
MB-SL 50	OSP-P50	77	180	180	2000	1870	8.29	0.97	3.63	20799FIL
MB-SL 63	OSP-P63	120	260	260	2500	2900	13.31	1.47	4.97	20800FIL
MB-SL 80	OSP-P80	120	260	260	2500	2900	17.36	1.81	4.97	20846FIL



Function:

The Multi-Brake is a passive device. When the air pressure is removed the brake is actuated and movement of the cylinder is blocked. The brake is released by pressurisation. The high friction, wear resistant brake linings allow the Multi-Brake to be used as a dynamic brake to stop cylinder movement in the shortest possible time. The powerful springs also allow the Multi-Brake to be used effectively in positioning applications.

Function



* **Please note:**

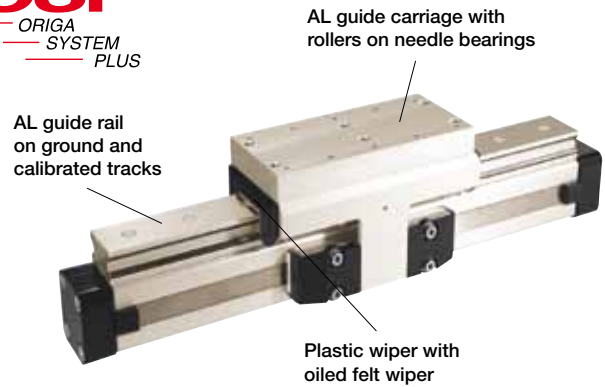
in the cushioning diagram, the mass of the guide carriage has to be added to the total moving mass.

¹⁾ Braking surface dry – oil on the braking surface will reduce the braking force

**Multi-Brake
 Passive Brake**
 with Aluminium Roller Guide Proline PL
 Series MB-PL 25 to 50 for Linear Drive

Features:

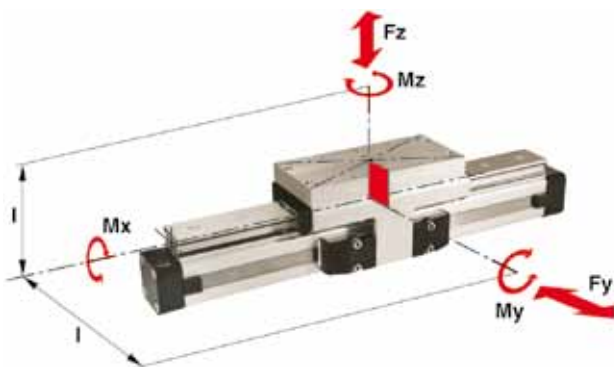
- Brake operated by spring actuation
- Brake release by pressurisation
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideway
- Blocking function in case of pressure loss
- Intermediate stops possible



Function:

The Multi-Brake is a passive device. When the air pressure is removed the brake is actuated and movement of the cylinder is blocked. The brake is released by pressurisation. The high friction, wear resistant brake linings allow the Multi-Brake to be used as a dynamic brake to stop cylinder movement in the shortest possible time. The powerful springs also allow the Multi-Brake to be used effectively in positioning applications.

Loads, Forces and Moments



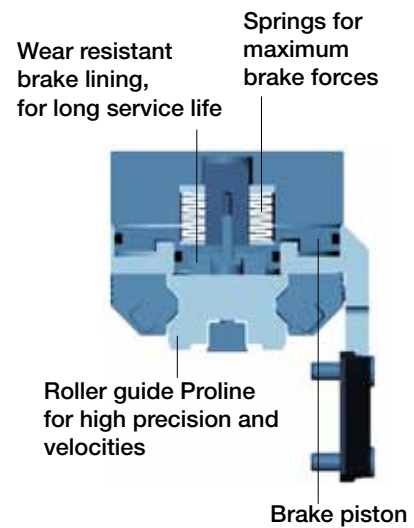
Technical Data

The table shows the maximal 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.
 With a load factor of less than 1, service life is 8000 km

Function



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

Operating Pressure 4.5 - 8 bar. A pressure of min. 4.5 bar release the brake.

Series	For linear drive	Max. moments [Nm]			Max. loads [N] Fy, Fz	Max. brake force [N] ¹⁾	Mass of linear drive with guide [kg]		Mass* guide carriage [kg]	Order No. – MB-PL Guide with passive brake without cylinder*
		Mx	My	Mz			with 0mm stroke	increase per 100mm stroke		
MB-PL25	OSP-P25	16	39	39	857	315	2.14	0.40	1.24	20864FIL
MB-PL32	OSP-P32	29	73	73	1171	490	4.08	0.62	2.02	20865FIL
MB-PL40	OSP-P40	57	158	158	2074	715	5.46	0.70	2.82	20866FIL
MB-PL50	OSP-P50	111	249	249	3111	1100	8.60	0.95	4.07	20867FIL

¹⁾ Braking surface dry – oil on the braking surface will reduce the braking force

Linear Drive Accessories

(Mountings and Magnetic Switches)

Series OSP-P



Description

Overview

Clevis Mounting

End Cap Mountings

End Cap Mountings (for Linear Drives with guides)

Mid-Section Support

Mid-Section Support (for Linear Drives with guides)

Inversion Mounting

Adaptor Profile

T-Slot Profile

Connection Profile

Duplex Connection

Multiplex Connection

Magnetic Switch, standard version

Magnetic Switch for T-Nut mounting

Magnetic Switch ATEX-version Ex

Cable Cover

See

Catalogue

P-A4P011GB

Origa - Sensoflex

Displacement measuring system for automated movement

Series SFI-plus
(Incremental measuring system)



Characteristics:

- Contactless magnetic displacement measurement system
- Displacement length up to 32 m
- Resolution 0.1 mm (option: 1 mm)
- Displacement speed up to 7 m/s
- For linear and non-linear rotary motion
- Suitable for almost any control or display unit with a counter input

The SFI-plus magnetic displacement measuring system consists of 2 main components.

- Measuring Scale
Self-adhesive magnetic measuring scale
- Sensing Head
Converts the magnetic poles into electrical signals which are then processed by counter inputs down stream

(e.g. PLC, PC, digital counter)