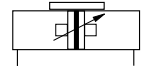


Clean Room Cylinder Ø 16-32 mm Certified to DIN EN ISO 14644-1



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)	Weight (Mass) kg	
	At 0 mm stroke	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} to T_{max}	-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
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.