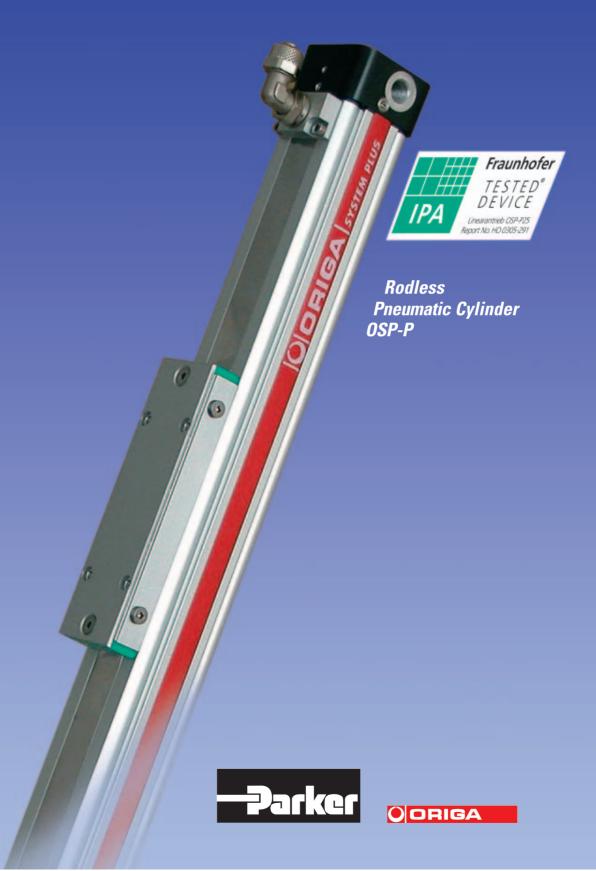
OSP Clean Room Rodless Cylinder certified to DIN EN ISO 14644-1





Fraunhofer

TESTED® DEVICE

Linearantrieb OSP-P25 Report No. HO 0305-291

Airborne Particulate Cleanliness Class Comparison

ISO 14644-1	RED STD 209E				
ISO Class	English	Metric			
1					
2					
3	1	M1.5			
4	10	M2.5			
5	100	M3.5			
6	1,000	M4.5			
7	10,000	M5.5			
8	100,000	M6.5			
9					

Example: FS Class 10 cleanroom (ISO class 4)

IPA Qualification Certificate

This is to certify that the product mentioned below manufactured by the company

Hoerbiger-Origa GmbH

Industriestraße 8 D- 70794 Filderstadt

has been awarded an IPA Qualification Seal bearing the report number HO 0305-291.

In operation at the velocity of $v_1=0.0$ m/s with vacuum suction the linear drive OSP-P25 is suitable for use in cleanrooms fulfilling the specifications of the cleanliness class 3 (according to ISO 14644-1). In operation at the velocity of $v_2=0.14$ m/s with vacuum suction the linear drive OSP-P25 is suitable for use in cleanrooms fulfilling the specifications of the cleanliness class 4 (according to ISO 14644-1). In operation at the velocity of $v_3=0.5$ m/s with vacuum suction the linear drive OSP-P25 is suitable for use in cleanrooms fulfilling the specifications of the cleanliness class 5 (according to ISO 14644-1). In operation at the velocity of $v_4=0.5$ m/s without vacuum suction the linear drive OSP-P25 is suitable for use in cleanrooms fulfilling the specifications of the cleanliness class 8 (according to ISO 14644-1).

Detailed information and parameters of the test environment can be found in the IPA Test Report compiled by the Fraunhofer Society.

Certified on May, 13th 2003.

The duration of the validity of this certificate is unlimited. For further information visit our website at http://www.ipa-qualification.com

Stuttgart, Germany, May, 13th 2003

Udo Zomme Signatura



Fraunhofer

Institut Produktionstechnik und Automatisierung

ORIGA SYTEM PLUS - Clean Room Cylinder → 16, 25, 32 mm - Type Technical Data



Technical Data

Char	acteristics	Symbol	Linit	Description				
01101	eral Features	Зуппоот	OTIIL	Description				
				D II II I				
Туре				Rodless cylinder				
Serie	es			OSP-P				
Syst	em			Double-acting, with cushioning, position sensing capability				
Mou	nting			See drawings				
Air C	Connection			Threaded				
Amb temp	perature	$\vartheta_{min} \ \vartheta_{max}$	°C °C	-10 Other temperature ranges +80 on request				
Wei	ght (mass)		kg	See table below				
Insta	ıllation			In any position				
Med	Medium			Filtered, unlubricated compressed air (other media on request)				
Lubr	ication			Permanent grease lubrication (additional oil mist lubrication not required) Option: special slow speed grease				
	Cylinder Profile			Anodized aluminium				
	Carrier (piston)			Anodized aluminium				
_	End caps			Aluminium, lacquered				
eria	Sealing bands			Corrosion resistant steel				
Mat	Sealing bands Seals			NBR (Option: Viton®)				
	Screws			Stainless steel				
	Covers			Anodized aluminium				
	Guide plate			Plastic				
Max.	operating pressure	p _{max}	bar	8				

* Pressures quoted as gauge pressure

Weight (mass) kg

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

Standard Versions:

Versions

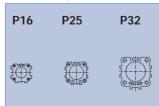
- Double-acting with
- adjustable end cushioningWith magnetic piston for
- position sensing
- Stainless steel screws

Special Versions:

- Slow speed lubrication
- Viton® seals

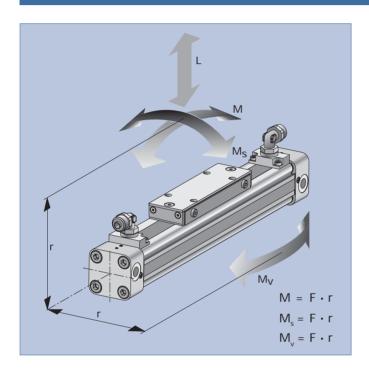


Size Comparison



Technical Data, Dimensions and Ordering

Loads, Forces and Moments



Series	Cylinder Ø	Force at 6 bar [N]	Cushion length [mm]	max. allowed Load L [N]	max. allow Bending N M [Nm]	/loment	max. allowed Torque M _v [Nm]
OSP-P16	16	78	11	120	4	0.45	0.5
OSP-P25	25	250	17	300	15	1.5	3.0
OSP-P32	32	420	20	450	30	3.0	5.0

Load and moment data are based on speeds $v \le 0.2$ m/s.

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

Ordering Instructions

Same as standard 18 character order instructions

(see OSP Rodless Pneumatic Linear Drive Systems catalog)

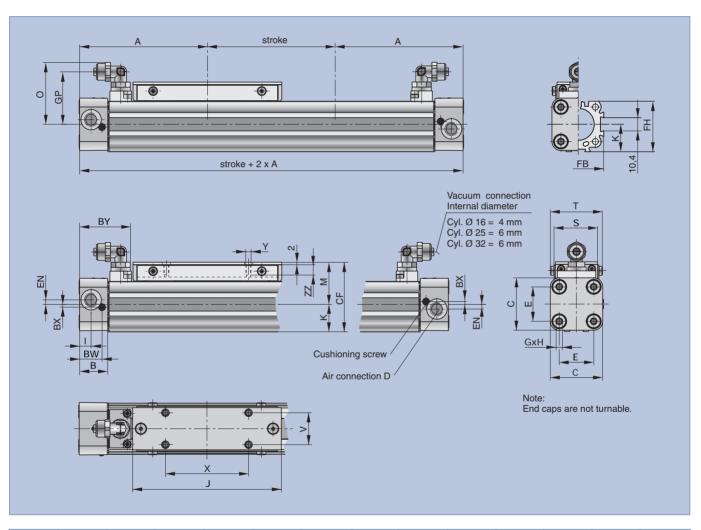
Example:

1	2	3
<u>Series</u>	Bore	Mount Single Piston Mount
Р	1 16	C = Cleanroom
	2 25	
	2 22	

ORIGA SYTEM PLUS - Clean Room Cylinder → 16, 25, 32 mm - Type Dimensions



Dimensions (mm)



Cyl. Ø	Α	В	С	D	E	G	Н	I	J	K	M	0	S
16	65	14	30	M5	18	M3	9	5.5	69	15	25	31	24
25	100	22	41	G1/8	27	M5	15	9	117	21.5	33	48.5	35
32	125	25.5	52	G1/4	36	M6	15	11.5	152	28.5	40	53.6	38

Cyl. Ø	Т	V	Х	Υ	BW	вх	BY	CF	EN	FB	FH	GP	ZZ
16	29.6	16.5	36	M4	10.8	1.8	28.5	40	3	30	27.2	25.7	7
25	40.6	25	65	M5	17.5	2.2	40.5	54.5	3.6	40	39.5	41	8
32	45	27	90	M6	20.5	2.5	47.1	68.5	5.5	52	51.7	46.2	10

Dimensions in mm

