Technical Data

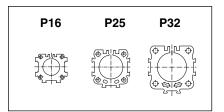
Characte	ristics			Pressure quoted as gauge pressure					
Character	ristics	Symbol Unit		Description					
General F	eatures								
Туре				Rodless Cylinder					
Series				OSP-P					
System				Double-acting, with cushioning, position sensing capability					
Mounting				see drawings					
Airconnec	ction			Threaded					
Ambient and medium temperature range		T _{min} T _{max}	°C	-10 – other temperature ranges +80 on request					
Weight (Mass)			kg	See table below					
Installatio	Installation			In any position					
Medium	Medium			Filtered, unlubricated compressed air (other media on request)					
Lubricatio	Lubrication			Permanent grease lubrication (additional oil mist lubrication not required) Option: special slow speed grease					
_	nder profile			Anodized aluminum					
Carı (pist				Anodized aluminum					
<u>.a</u> End	caps			Aluminum, lacquered					
Materia se se	ling bands			Corrosion resistant steel					
≌ Sea	ls			NBR (Option: Viton®)					
Scre	ews			Stainless steel					
Cov	ers			Anodized aluminum					
Guid	Guide plate			Plastic					
Max. opera	ting pressure*	Pmax	bar	8					

^{*} Pressure quoted as gauge pressure

Weight (Mass) kg

Cylinder series (basic cylinder)	Weight (Nat 0 mm stroke	lass) kg per 100 mm stroke			
OSP-P16	0.22	0.1			
OSP-P25	0.65	0.197			
OSP-P32	1.44	0.354			

Size Comparison



Clean Room Cylinder

ø 16 – 32 mm Rodless Cylinder certified to DIN EN ISO 14644-1



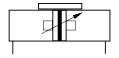
Standard Versions:

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

Special Versions:

- Slow speed lubrication
- Viton® seals

Series OSP-P...



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
- Aluminum piston with bearing rings to support high direct and cantilever loads







Clean Room Cylinders

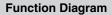
Certification

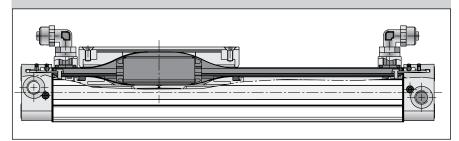
Based on the PARKER-ORIGA rodless cylinder, proven in world wide markets, PARKER-ORIGA now offers the only rodless cylinder on the market with a certification from IPA Institute for the cleanroom specification according to DIN EN ISO 14644-1.



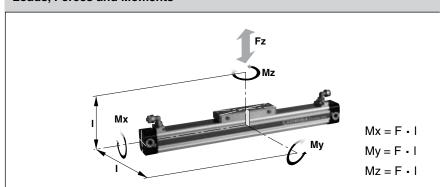
Function:

The clean room cylinders of the ORIGA SYSTEM PLUS (OSP-P) combines the efficiency of the PARKER-ORIGA slot seal system with vacuum protection against progressive wear and contamination from the sliding components. A partial vacuum drawn between inner and outer sealing bands prevents emission into the clean room. To achieve the necessary vacuum a suction flow of ca. 4 m³/h is required.





Loads, Forces and Moments



Cylinder Series (mm Ø)	Effective Force at 6 bar (N)	Max. Mon		Max. Load Fz (N)	Cushion length (mm)	
OSP-P16	78	0.45	4	0.5	120	11
OSP-P25	250	1.5	15	3.0	300	17
OSP-P32	420	3.0	30	5.0	450	20

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.



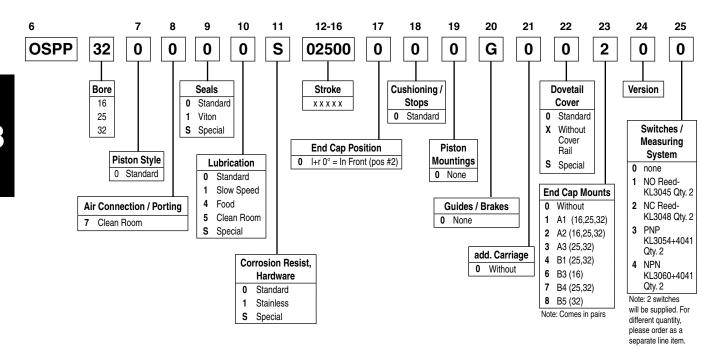


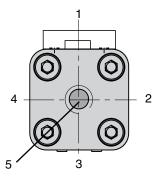
Dimensions (mm) Stroke • GР Stroke + 2 x A FΒ Vacuum connection Internal diameter Cyl. Ø16 = 4 mm ВҮ Cyl. Ø25 = 6 mm Cyl. Ø32 = 6 mm • ● ပ ш GxH Cushioning screw BW Ε С Air connection D Note: End caps are not turnable.

Dimension Table (mm)													
Cylinder Series	Α	В	С	D	E	G	Н	I	J	К	М	0	S
OSP-P16	65	14	30	M5	18	МЗ	9	5.5	69	15	25	31	24
OSP-P25	100	22	41	G1/8	27	M5	15	9	117	21.5	33	48.5	35
OSP-P32	125	25.5	52	G1/4	36	M6	15	11.5	152	28.5	40	53.6	38

Cylinder Series	Т	V	Х	Y	BW	вх	ВҮ	CF	EN	FB	FH	GP	ZZ
OSP-P16	29.6	16.5	36	M4	10.8	1.8	28.5	40	3	30	27.2	25.7	7
OSP-P25	40.6	25	65	M5	17.5	2.2	40.5	54.5	3.6	40	39.5	41	8
OSP-P32	45	27	90	M6	20.5	2.5	47.1	68.5	5.5	52	51.7	46.2	10

Ordering Instructions / Part Numbering System for OSP-P Clean Room Series





Note: Position #2 is the standard location.



