Characteristics

Unal acteristics							
Cha	aracteristics	Symbol	Unit	Description			
Ge	General Features						
Тур	e			Rodless cylinder for synchronized bi-parting movements			
Ser	ies			OSP-P			
Sys	stem			Double acting with end cushioning. For contactless position sensing			
Gui	ide			Slideline SL40			
Syr	nchronization			Toothed belt			
Mounting				Seedrawings			
Am ran	bient temperature ge	Tmin Tmax	°C ℃	-10 +60			
We	ight (Mass)		kg	see table page B36			
Me	dium			Filtered, unlubricated compressed air (other media on request)			
Lub	prication			Special slow speed grease – additional oil mist lubrication not required			
Ma	terial						
	Toothed Belt			Steel-corded polyurethane			
	Belt wheel			Aluminum			
Ope ran	erating pressure ge	pmax	bar	6			
Cus mid	shioning Idle position			Elastic buffer			
Ma	x.Speed	Vmax	m/s	0.2			
Max.stroke of each stroke			mm	500			
Max. mass per guide carrier			kg	25			
Max. moments on guide carrier							
	lateral moment	Mxmax	Nm	25			
.	axial moment	Mymax	Nm	46			
	rotating moment	Mzmax	Nm	46			
For	more technical infor	mation see	nades B4	1			

Applications



Rodless Cylinder Ø 40 mm

for synchronized bi-parting movements

Type OSP-P40-SL-BP



Features:

- Accurate bi-parting movement through toothed belt synchronization
- Optimum slow speed performance
- · Increased action force
- Anodized aluminum 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:

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



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Weight (mass) kg

Cylinder series	Weight (Mass) kg		
(Basic cylinder)	At 0 mm stroke	per 100 mm stroke	
OSP-P40-SL-BP	10.334	2.134	

Function:

The OSP-P40-SL-BP bidirectional linear drive is based on the OSP-P40 rodless pneumatic cylinder and adapted SLIDELINE SL40 polymer plain-bearing guides.

Two pistons in the cylinder bore are connected via yokes and carriers to the SLIDELINE guide carriers, which handle the forces and moments generated.

The bi-parting movements of the guide carriers are accurately synchronized by a recirculating toothed belt.

The two pistons are driven from the middle to the end positions via a common G1/4 air connection in the middle of the cylinder, and are driven from the end positions to the middle via an air connection in each end cap. End position cushioning is provided by adjustable air cushioning in the end caps, and middle position cushioning by rubber buffers.





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Ordering Instructions / Part Numbering System for OSP-P Bi-Parting Rodless Cylinders Series 6 7 8 9 10 11 12-16 17 18 19 20 21 22 23 24 25 OSPP 7 5 0 0 0 0 9 0 40 Ν 0 01000 0 0 0 0 Cushioning / Bore Seals Stroke Dovetail Version Stops Cover 40 0 Standard 0 Standard 0 Standard Switches / Without X Measuring Cover System **Piston Style** Lubrication Piston Rail 0 none Mountings N Bi-Parting 0 Standard S Special NO Reed-1 0 None KL3045 Qty. 2 **End Cap Mounts** 2 NC Reed-Corrosion Resist, Air Connections / Porting Guides / Brakes 0 Without KL3048 Qty. 2 Hardware 9 C1 0 None PNP 3 0 Standard (position #2) 0 KL3054+4041 Standard Α C2 1 End Face (position #5 Qty. 2 1 Stainless **B** C3 add. Carriage 2 Single End Porting 4 NPN Special s **C** C4 0 Without KL3060+4041 3 Left Stand (pos #2) Note: Comes in pairs Right End Face (pos #5) Qty. 2 Note: 2 switches 4 Right Stand (pos #2), **End Cap Position** will be supplied. For Left End Face (pos #5) different quantity, 0 I+r 0° = In Front (pos #2) Single End Porting 6 please order as a End Face 1 I+r 90° = Underneath (pos #3) separate line item. 2 I+r 180° = At the Back (pos # 4) S Special 3 I+r 270° = Same Face as Outerband (pos #2,1) 4 I 90° = Underneath; r 0° = In Front (pos #3,2) 5 | 180° = At the Back; r 0° = In Front (pos #4,2) 6 I 270° = Same Face as Outerband; r 0° = In Front (pos #1,2) 7 I 0° = In Front; r 90° = Underneath (pos #2, 3) 8 I 180° = At the Back; r 90° = Underneath (pos #4,3) 9 I 270° = Same Face as Outerband; r 90° = Underneath (pos #1,3) A 10° = In Front; r 180° = At the Back (pos #2,4) **B** 190° = Underneath; r 180° = At the Back (pos #3,4) C | 270° = Same Face as Outerband; r 180° = At the Back (pos #1,4) **D** I 0° = In Front; r 270° = Same Face as Outerband (pos #2,1) **E** 190° = Underneath; r 270° = Same Face as Outerband (pos #3,1) F | 180° = At the Back; r 270° = Same Face as Outerband (pos #4,1) S Special



Note: Position #2 is the standard location.



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