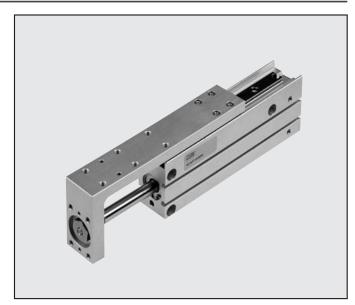


PRECISION SLIDES SERIES S13

Series S13 precision slides feature a dual-acting pneumatic cylinder that has the sole purpose of pushing and pulling the load, a ground steel guide that is integral with the body, and a ball recirculation pad that is fixed onto the moving table and is designed to withstand all the loads and movements applied. This ensures accurate movement with virtually no play, and the piston rods do not suffer wear as there are no lateral loads. All the slides are equipped with sensor magnets.

The body can be secured on many sides. The load side can be fixed onto the table from the top or the front. The compressed air supply can be connected on three sides. The retractable sensors can be fitted on the right or on the left. All these possibilities make the application extremely flexible. The width is extremely reduced to allow installation in small spaces and the combination of several reduced-pitch slides.

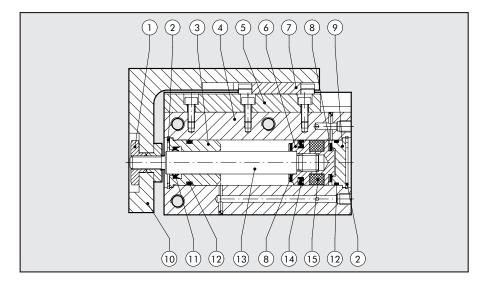


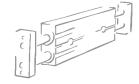
TECHNICAL DATA										
Pressure range	bar	2 ÷ 8 (0,2 ÷ 0,8 MPa)								
Operating temperature	°C	- 10 to +70								
Fluid		Lubricated and	unlubricated compressed air at	20 μm, must be uninterrupted	d when lubricated					
Minimum and maximum speed	mm/s		30 an	d 500						
Pneumatic fittings			N	15						
Type of guide			Ball reci	rculation						
Versions		Magnetic dual-acting with rubber buffer								
Bore	mm	Ø 6	Ø10	Ø16	Ø 20					
Strokes	mm	10	10	10	10					
		25	25	25	25					
				50	50					
Theoretical thrust force, at 6 bar	N	17	47	120	188					
Theoretical pull force, at 6 bar	N	13	40	104	158					
Admitted loads		See diagrams								
Admitted kinetic energy	Joule	0,012	0,025	0,050	0,100					
Stroke tolerance	mm	0 / +1,0								
Assembly position		any (horizontal and vertical)								
Weight	Kg			table						

COMPONENTS

- 1) NUT: stainless steel
- ② SNAP RING: galvanised steel
- ③ FRONT BASE: bronze
- 4 BODY: anodized aluminium
- (5) GUIDE: tempered stainless steel
- 6 PISTON: aluminium
- (7) BALL RECIRCULATION PAD: stainless steel
- (8) BUFFER: NBR
- REAR BASE: anodized aluminium
- (1) PLATE: anodized aluminium
- (1) PISTON ROD GASKET: type EM, NBR
- (2) O-RING: NBR
- (3) PISTON ROD: stainless steel
- 4 PISTON GASKET: type PZ, NBR
- (5) MAGNET: neodymium (Ø6 and Ø10)

plastoferrite (Ø16 and Ø20)





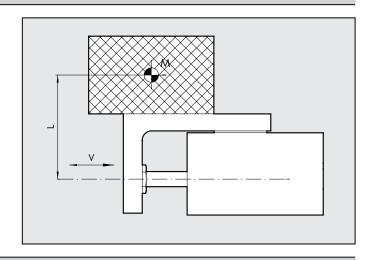
WEIGHT (gr)				
stroke		bo	ore	
SHOKE	6	10	16	20
10	68	125	230	455
25	90	160	280	550
50			350	660

WEIGHT OF MOVING PART(gr)											
stroke	bore										
	6	10	16	20							
10	30	50	100	180							
25	40	68	125	220							
50	***		167	290							

MASS/VELOCITY DIAGRAM

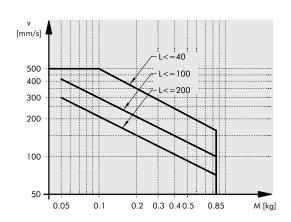
M (kg) = Mass applied

L (mm) = Distance between the axis of the piston rod and the barycentre of the mass v (mm/s) = Velocity of the slide vert = Limit with vertical movement

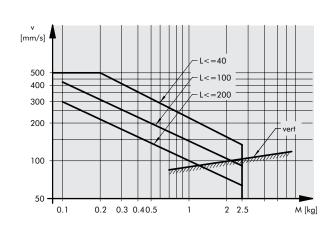


ADMITTED LOADS DIAGRAM

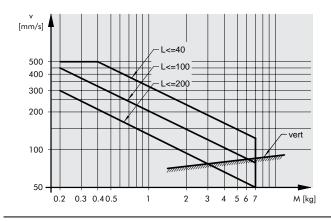
S13-6



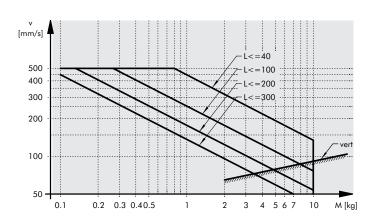
S13-10



S13-16

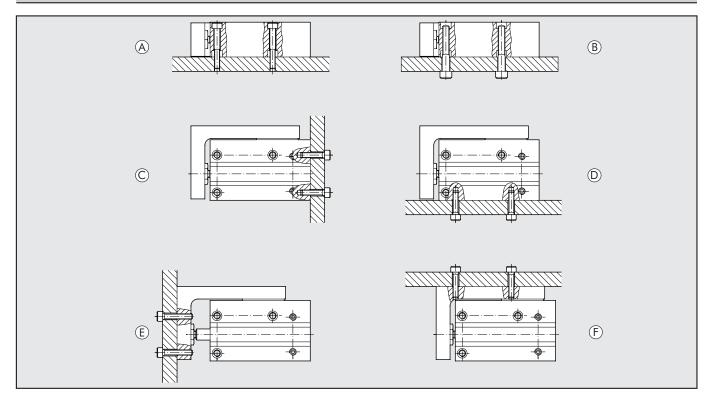


\$13-20





FIXING OPTIONS



FIXING THE BODY:

- A Lateral, via the through holes.
- B Lateral, on the hole threads.
- © Rear, on the threaded holes.
- D Vertical, on the threaded holes.

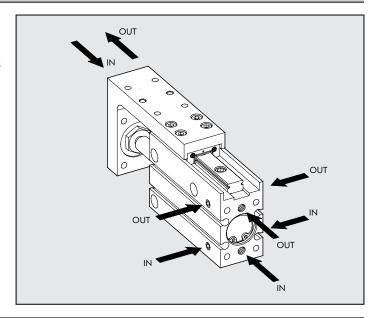
FIXING THE MOVING TABLE:

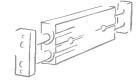
- (E) Front, on the threaded holes.
- F Top, on the threaded holes.

N.B. Since the table is supported by a ball guide/pad, avoid applying excessive torques or forces. When securing the screws, hold the table, not the body, so that the torque discharges through the ball pad.

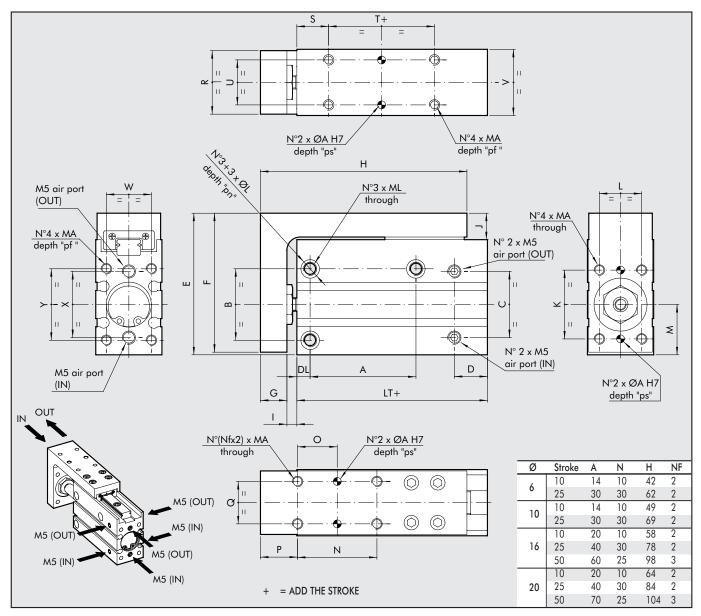
COMPRESSED-AIR SUPPLY

The compressed air supply can be from the back, from the left or from the right. The slide comes with holes on the left and right that are plugged with screws and Oring seals. If you wish to use the holes, remove the screws and Orings and fix them in the holes in the back, applying a drop of adhesive to the screw thread.





DIMENSIONS



Code	Ø	LT	В	С	D	E	F	G	I	J	K	MA	pf	ØA	ps	L	М	0	Р	Q	R	S
W1471063*	6	31	19	18	10	39	38	5.5	2.9	7.5	15	М3	5	2	4.5	9	14.5	N/2	8	9	15	10
W1471103*	10	35	23	20	12.5	47	46	7.5	4	9	18	M4	6	2	4.5	11	15.5	N/2	11	11	19	12
W1471163	16	42	27	25	12.5	53.5	52.5	10	3.75	10	26	M4	7	3	7.5	16	19	N/2	14	16	24	12
W1471203*	20	52.5	34	32	15	64.5	63.5	11	4.5	10.5	34	M5	9	3	7.5	20	23	N/2	14	20	31	15

*Enter the stroke in mm (e.g. Ø6 stroke 10=W1471063010)

T	U	٧	W	Χ	Υ	ØL	pn	ML	DL
5	9	16	10.5	18	19	6	3.5	M4	4
5	13	20	13	20	23	7.5	4.5	M5	5
10	17	25	17	25	27	7.5	4.5	M5	5
10	20	32	20	32	34	9.5	7.5	M6	6

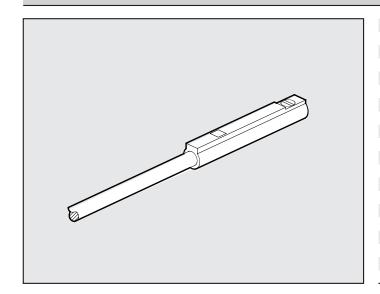
Standard strokes:

Bore Ø6	->	10; 25 mm	
Bore Ø10	->	10; 25 mm	
Bore Ø16	->	10; 25; 50 mm	
Bore Ø20	->	10; 25; 50 mm	



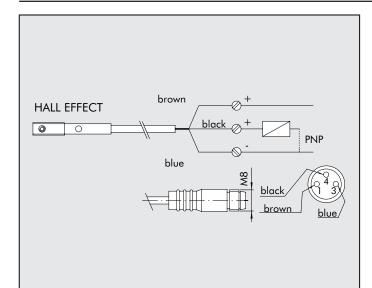
ACCESSORIES

Ø4 MAGNETIC SENSOR



CODE DESCRIPTION
W0950044180 2-wire reed magnetic sensor 24 VDC 1m
W0950045390 3 wire electronic magnetic sensor

WIRING DIAGRAM FOR W0950045390



Effetto Hall PNP Switch 6÷30 Tension in DC ٧ Tension in AC Current at 25°C 0,2 Α Power (ohmic load) W max 6 On time 0,8 μs Off time 0,3 μs On point Gauss 30 25 Off point Gauss Electric life (pulses) 109 On voltage drop <1 30÷50 Nominal operating point Gauss Operating frequency max 200 Yes Polarity reversal protection Short-circuit protection NO IP 67 Degree of protection (EN 60529) -10 ÷ +70 Temperature range °C Sensor capsule material PA (+G) LED display Yellow 3 Wiring NO.

TECHNICAL DATA

NOTES