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Double-acting piston cylinder Series HPSK

Design type	Double-acting piston cylinder, optionally with brass guide bearing or with ball bushing
End-position cushioning	mechanical
Stroke adjustment	0...5mm
Connections	Ø 16...20: M5x0,8 Ø 25...32: G 1/8"
Speed	30...300 mm/s
Ambient temperature	0...+80°C
Medium temperature	0...+40°C
Lubrication	not necessary
Medium	filtered compressed air
Operating pressure	2...8bar
Solenoid switch	Type VNCR2, VNPR2, VNCE3, VNPE3 (See separate data sheet for details)
Note	CAD files are available in the STASTO Store at www.stasto.eu

Type code

HPSK - _ _-		_ _ -	_ _ _
	BS with brass guide bearing	16 ø16	Stroke [mm]
	BB with ball bushing	20 ø25	
		25 ø25	
		32 ø32	

Standard strokes

Ø	10	20	30	40	50	75	100
16	•	•	•	•	•	•	
20	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•

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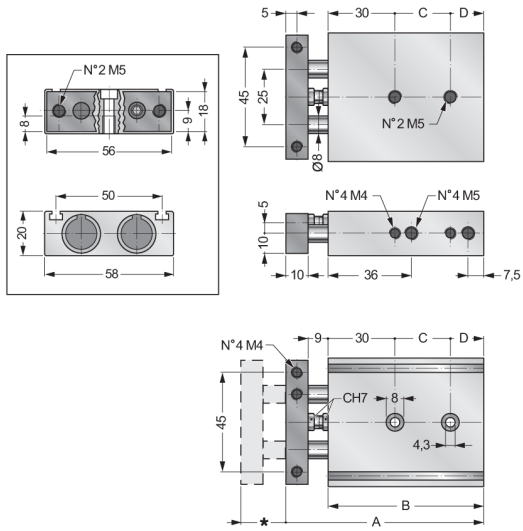
Theoretical compressive and tensile forces [N]

Ø	2 bar		3 bar		4 bar		5 bar		6 bar		7 bar		8 bar	
	Pressure	Pull	Pressure	Pull	Pressure	Pull	Pressure	Pull	Pressure	Pull	Pressure	Pull	Pressure	Pull
16	80	60	120	90	160	120	200	150	240	180	280	210	320	240
20	126	94	190	140	250	190	314	236	377	280	440	330	500	377
25	196	150	295	227	390	300	490	380	590	455	687	530	786	605
32	320	240	480	360	640	480	804	600	965	720	1130	844	1290	965

Mounting examples

HPSK - .. - 16 - ... Ø 16



* = Stroke

Stroke	A	B	C	D
10	59	70	25	15
20	99	80	25	25
30	109	90	35	25
40	119	100	35	35
50	129	110	35	45
75	154	135	35	70

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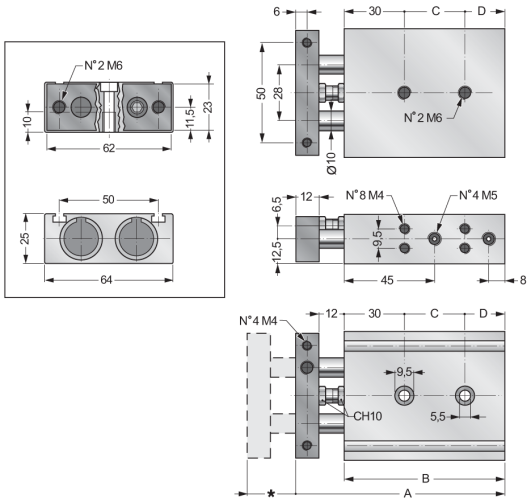
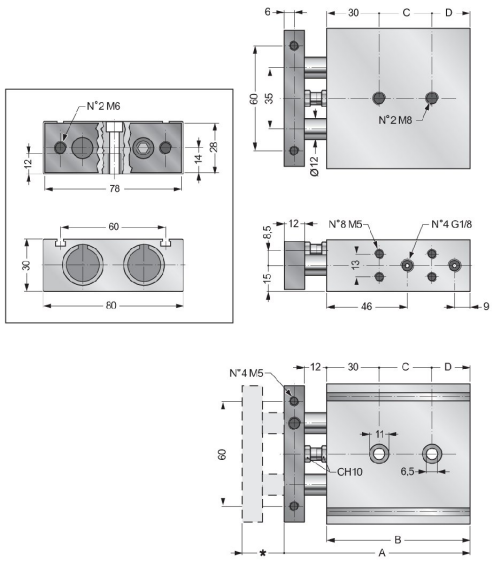
HPSK - .. - 20 - ... Ø 20



* = Stroke

Stroke	A	B	C	D
10	104	80	30	20
20	114	90	30	30
30	124	100	40	30
40	134	110	40	40
50	144	120	40	50
75	169	145	60	55
100	194	170	60	80

HPSK - .. - 25 - ... Ø 25



* = Stroke

Stroke	A	B	C	D
10	106	82	30	22
20	116	92	30	32
30	126	102	40	32
40	136	112	40	42
50	146	122	40	52
75	171	147	60	57
100	196	172	60	82

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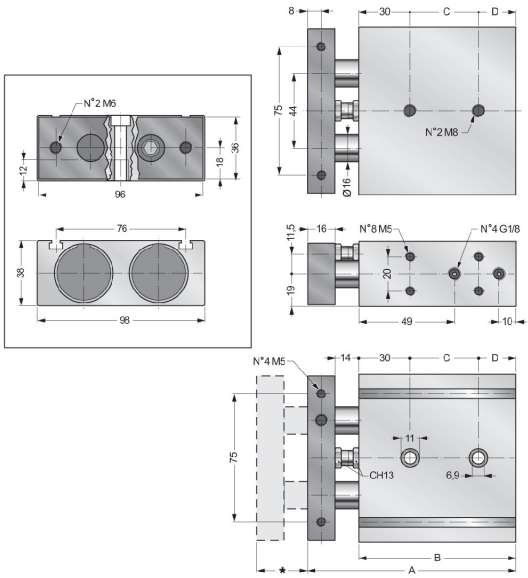
HPSK - .. - 32 - ... Ø 32

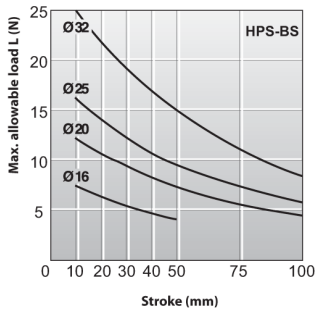


* = Stroke

Stroke	A	B	C	D
10	122	92	40	22
20	132	102	40	32
30	142	112	50	32
40	152	122	50	42
50	162	132	50	52
75	187	157	70	57
100	212	182	70	82

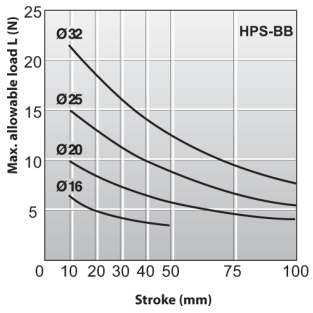
Maximum permissible load

HPSK-BS
with brass guide bearing:



Stroke = Stroke

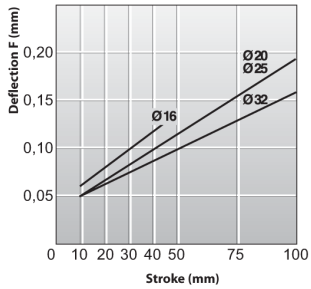
HPSK-BB
with ball bushing:



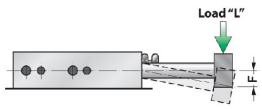
Stroke = Stroke

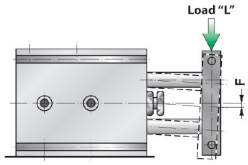
Piston rod deflection

The diagram shows the standard values of piston rod deflection F with a load of 10 N.



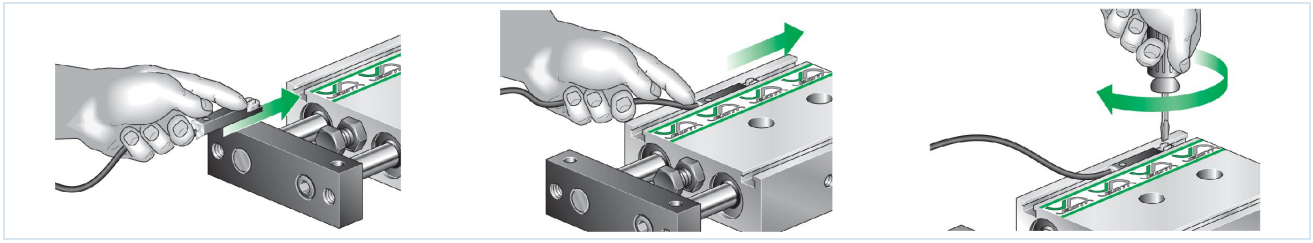
Stoke = Stroke





Deflection under lateral load is 30% lower than under top load

Installation instructions for magnetic switch



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