

Features

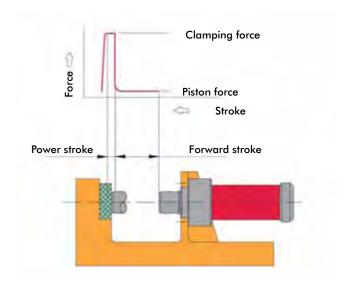
Your requirements

Power element of machines, tools and devices for the following applications:

- Clamping
- Coining
- Punchina
- Rivetina
- Stamping
- Pressing
- Notchina
- Clinchina

The solution

DE-STA-CO s double acting power cylinder, which is based on the wedge lever principle.



Product features

- Mechanical advantage: 10: 1
- Characteristic are the two steps of stroke: the forward stroke to move a certain distance and the power stroke with an amplified force on a short distance
- Exact positioning of cylinder by flange mount on cylinder's head
- Cylinder works in any position
- High durability because of solid and maintenance free wedge lever mechanics.
- End position control by magnetic field sensing

Technical Data	
Power forces at 6 bar	4 – 60 kN
Forward strokes	15 – 200 mm
Power strokes	6 and 7 mm*
Air pressure	max. 6 bar, min 3 bar
Mechanical advantage	max. 10:1
Cylinders require clean, water- ar	nd oil free air

^{*}power strokes up to max. 12 mm upon request

Round design: Type K and WK

• Piston rod with male thread (Type K) or ISO fit (Type WK)



Rectangular design: Type WR

Two piston rods prevent twisting

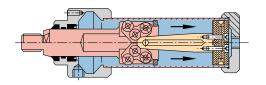


Application Recommendations

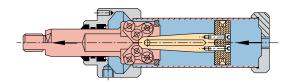
- Compressed air should be treated by filter, water separator and pressure regulator. Oiler is not allowed!
- For an adequate piston speed air hoses with 6mm I.D. should be used.
- Do not increase the max. air pressure of 6 bar, because this would reduce the cylinder s life cycle considerably.
- The piston rods of type K and WK are not secured against twisting, an external device should be provided.
- Piston rod should not be subjected to transversal forces. Force should always be excerted by coaxial force through the piston rod to the work piece.
- For Type WR, force must be transmitted via the centre of the pressure plate.
- Connection between rod and tool should be performed as frictional connection (coupling), not as form fitting connection.
- For punching operations we recommend a force reserve of approx. 30 %.
- If the cylinder is used for positioning in the extended rod position you should consider that a possible counter-force will cause an axial deflection of approx. 1 mm. This feature is due to the cylinder's design because after the nominal power stroke the clamping force drops down to the level of the piston force (see force-stroke diagram left side).
- Valves are not usable to avoid piston movement. If the piston should be positioned within the range of the forward stroke, both chambers of the cylinder have to be vented. If the cylinder should stay at a retracted position the piston rod chamber should be under pressure and the piston chamber should be vented.
- For further facts and additional applications features see operating instruction MAPnkz-2.



Function

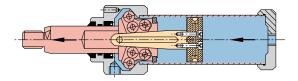


Basic position



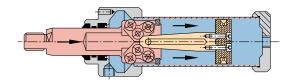
Forward stroke

Piston force is identical to the force of a common pneumatic cylinder with adequate piston diameter



Power stroke

Beginning of mechanical force amplification. Mechanical advantage max. 10:1



Return stroke

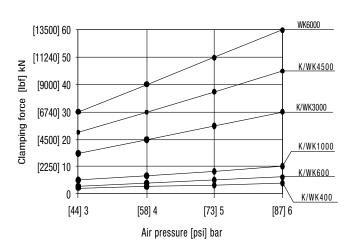
The return stroke can be initiated in any position of piston. The force during return stroke is approx. half of piston force.

Forces

Force within forward stroke

WK6000 [1350] 6 [1124] 5 Piston force [lbf] kN K/WK4500 [900] 4 K/WK3000 [674] 3 [450] 2 K/WK1000 K/WK600 [225] 1 K/WK400 0 [44] 3 [58] 4 [73] 5 [87] 6 Air pressure [psi] bar

Clamping force within power stroke



Return stroke force: half of piston force

Type K Product Overview



Piston rod with male thread

Operating pressure max. 6 bar [87psi], min 3 bar [44psi]. Use only clean, water- and oilfree compressed air. Piston rod is not secured against twisting and should not be loaded transversal. See page 14.2 for more information.

Type K Technical Information

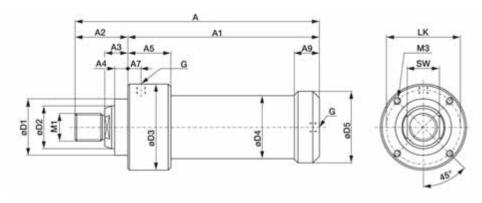
Model	Piston force within forward stroke at 6 bar kN [lbf]	Forward stroke mm [in]	Piston dia. mm [in]	Power stroke mm [in]	Piston dia. mm [in]	Air consumption per double stroke at 6 bar dm³ [ft³]	Stroke frequency depending on total stroke [min ⁻¹]	Temperature range °C [°F]	Weight Kg [lbs]
K400-15-6-1		15 [0.59]				0,71 [0.025]			1,20 [2.6]
K400-30-6-1	0.49	30 [1.18]				0,89 [0.031]			1,25 [2.8]
K400-50-6-1	0,68 [153]	50 [1.97]	4	6	40	1,14 [0.040]	5 to 30	- 5 to +75	1,30 [2.9]
K400-70-6-1	[.00]	70 [2.76]	[900lbf]	[0.24]	[1.75]	1,38 [0.049]		[23 to 167]	1,35 [3.0]
K400-120-6-1		120 [4.72]				1,98 [0.070]			1,50 [3.3]
K400-200-6-1		200 [7.87]				2,94 [0.104]			1,70 [3.7]
K600-15-6-1		15 [0.59]				1,34 [0.047]			2,05 [4.5]
K600-30-6-1		30 [1.18]				1,65 [0.058]			2,15 [4.7]
K600-50-6-1	1,06	50 [1.97]	6	6	50	2,06 [0.073]	5 to 30	- 5 to +75	2,30 [5.1]
K600-70-6-1	[238]	70 [2.76]	[1350lbf]	[0.24]	[1.97]	2,47 [0.087]	3 10 00	[23 to 167]	2,40 [5.3]
K600-120-6-1		120 [4.72]				3,50 [0.124]			2,70 [6.0]
K600-200-6-1		200 [7.87]				5,15 [0.182]			3,20 [7.1]
K1000-15-7-1		15 [0.59]				2,20 [0.078]			3,60 [7.9]
K1000-30-7-1		30 [1.18]				2,66 [0.094]			3,80 [8.4]
K1000-50-7-1	1,75	50 [1.97]	10	7*	63	3,26 [0.115]	5 to 30	- 5 to +75	4,10 [9.0]
K1000-70-7-1	[393]	70 [2.76]	[2250lbf]	[0.27]	[2.48]	3,85 [0.136]	3 10 30	[23 to 167]	4,40 [9.7]
K1000-120-7-1		120 [4.72]				5,35 [0.189]			5,20 [11.5]
K1000-200-7-1		200 [7.87]				7,74 [0.273]			6,40 [14.1]
K3000-15-6-1		15 [0.59]				4,48 [0.158]			11,80 [26.0]
K3000-30-6-1		30 [1.18]				5,20 [0.184]			12,50 [27.6]
K3000-50-6-1	3	50 [1.97]	30	6*	85	6,17 [0.218]	5 to 25	- 5 to +75	13,40 [29.5]
K3000-70-6-1	[674]	70 [2.76]	[4500lbf]	[0.24]	[3.35]	7,13 [0.252]	3 10 23	[23 to 167]	14,30 [31.5]
K3000-120-6-1		120 [4.72]				9,54 [0.337]			16,60 [36.6]
K3000-200-6-1		200 [7.87]				13,40 [0.473]			20,20 [44.5]
K4500-15-6-1		15 [0.59]				6,18 [0.218]			13,30 [29.3]
K4500-30-6-1		30 [1.18]				7,17 [0.253]			14,00 [30.9]
K4500-50-6-1	4,2	50 [1.97]	45	6*	100	8,50 [0.300]	5 to 25	- 5 to +75	15,00 [33.1]
K4500-70-6-1	[944]	70 [2.76]	[10120lbf]	[0.24]	[3.94]	9,83 [0.347]	J 10 23	[23 to 167]	15,80 [34.8]
K4500-120-6-1		120 [4.72]				13,20 [0.466]			18,10 [39.9]
K4500-200-6-1		200 [7.87]				18,50 [0.653]			21,70 [47.8]

^{*} Power strokes up to 12 mm and other forward strokes upon request



Type **K** Technical Information

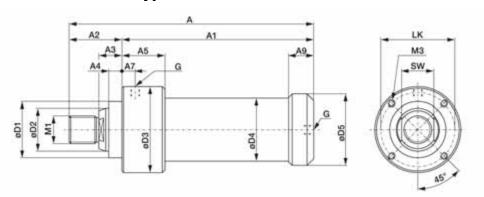
Type K in standard version



Model			Diffe	rences	of dime					rd versi agnet p			e chart	on paç	ge 14.1()		
	Α	Α1	A ₂	A ₃	A_4	A ₅	A ₇	A9	ØD ₁	Ø D ₂	ø d ₃	Ø D ₄	Ø D ₅	M_1	М3	LK	sw	G
K400-15-6-1	186 [7.32]	145 [5.71]																
K400-30-6-1	201 [7.91]	160 [6.30]																
K400-50-6-1	221 [8.70]	180 [7.09]	41	21	12	39	10	23,5	40 _{h8}	25 _{h7}	63	44	49	M16	M5, 10mm	54	21	1 /0
K400-70-6-1	241 [9.49]	200 [7.87]	[1.6]	[8.0]	[0.5]	[1.5]	[0.4]	[0.9]	[1.6]	[1.0]	[2.5]	[1.7]	[1.9]	x 1,5 [0.06]	deep [0.1]	[2.1]	[8.0]	1/8
K400-120-6-1	291 [11.46]	250 [9.84]																
K400-200-6-1	371 [14.61]	330 [12.99]																
K600-15-6-1	201 [7.91]	160 [6.30]																
K600-30-6-1	216 [8.50]	175 [6.89]																
K600-50-6-1	236 [9.29]	195 [7.68]	41	21	12	39	10		40 _{h8}	25 _{h7}	73	54	59	M16	M6, 10mm	64	21	1/8
K600-70-6-1	256 [10.08]	215 [8.46]	[1.6]	[8.0]	[0.5]	[1.5]	[0.4]					1	[2.3]	x 1,5 d	deep [0.1]	[2.5]	[0.1]	1/0
K600-120-6-1	306 [12.05]	265 [10.43]																
K600-200-6-1	386 [15.20]	345 [13.58]																
K1000-15-7-1	243 [9.57]	187 [7.36]																
K1000-30-7-1	258 [10.16]	202 [7.95]																
K1000-50-7-1	278 [10.94]	222 [8.74]	56	25	15	52	10	29	63 _{h8}	40 _{h7}	100	68	74,5	M24	M8, 12mm	85	32	1 /0
K1000-70-7-1	298 [11.73]	242 [9.53]	[2.2]	[1.0]	[0.6]	[2.0]	[0.4]	[1.1]	[2.5]	[1.6]	[3.9]	[2.7]	[2.9]	[0.98]	deep [1]	[3.3]	[1.3]	1/8
K1000-120-7-1	348 [13.70]	292 [11.50]																
K1000-200-7-1	428 [16.85]	372 [14.65]																

Type K Technical Information (continued)

Type K in standard version



Model			Diffe	erences	of dim					ırd vers agnet p		, .	e chart	on pag	je 14.10			
	Α	Α1	A ₂	A ₃	A ₄	A ₅	A ₇	A9	ØD ₁	Ø D ₂	ØD ₃	Ø D ₄	ØD ₅	M ₁	M3	LK	sw	G
K3000-15-6-1	315 [12.40]	235 [9.25]																
K3000-30-6-1	330 [12.99]	250 [9.84]																
K3000-50-6-1	350 [13.78]	270 [10.63]	50	35	20	70	20	45	85 _{h8}	65 _{h7}	130	95	108	M42	M10, 16mm	112	55	1/4
K3000-70-6-1	[14.57] 370	[11.42] 290	[2.0]	[1.4]	[8.0]	[2.8]	[8.0]	[1.8]	[3.3]	[2.6]	[5.1]	[3.7]	[4.3]	[1.65]	deep [1.7]	[4.4]	[2.2]	1/4
K3000-120-6-1	420 [16.54]	[13.39] 340																
K3000-200-6-1	500 [19.69]	420 [16.54]																
K4500-15-6-1	315 [12.40]	235 [9.25]																
K4500-30-6-1	330 [12.99]	250 [9.84]																
K4500-50-6-1	350 [13.78]	270 [10.63]	80	35	20	70	20	45	85 _{h8}	65 _{h7}	145	110	123	M42	[1.7] M10,	127	55	1/4
K4500-70-6-1	370 [14.57]	290 [11.42]	[3.1]	[1.4]	[8.0]	[2.8]	[8.0]	[1.8]	[3.3]	[2.6]	[5.7]	[4.3]	[4.8]	[1.65]		[5.0]	[2.2]	1/4
K4500-120-6-1	420 [16.54]	340 [13.39]																
K4500-200-6-1	500 [19.69]	420 [16.54]																



Type WK Product Overview



• Piston rod with iso fit Note:

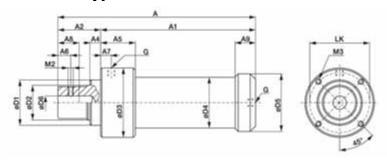
Operating pressure max. [87psi]6 bar, min [44psi] 3 bar. Use only clean, water- and oilfree compressed air. Piston rod is not secured against twisting and should not be loaded transversal. See page 14.2 for more information.

Model	Piston force within forward stroke at 6 bar kN [lbf]	Forward stroke mm [in]	Clamping force within power stroke at 6 bar kN [lbf]	Power stroke mm [in]	Piston dia. mm [in]	Air consumption per double stroke at 6 bar dm³ [ft³]	Stroke frequency depending on total stroke [min ⁻¹]	Temperature range °C [°F]	Weight [lbs] kg
WK400-15-6-1		15 [0.59]				0,71 [0.025]			1,20 [2.6]
WK400-30-6-1		30 [1.18]				0,89 [0.031]			1,25 [2.8]
WK400-50-6-1	0,68	50 [1.97]	4	6	40	1,14 [0.040]	5 to 30	- 5 to +75	1,30 [2.9]
WK400-70-6-1	[153]	70 [2.76]	[900lbf]	[0.24]	[1.75]	1,38 [0.049]	3 10 30	[23 to 167]	1,35 [3.0]
WK400-120-6-1		120 [4.72]				1,98 [0.070]			1,50 [3.3]
WK400-200-6-1		200 [7.87]				2,94 [0.104]			1,70 [3.7]
WK600-15-6-1		15 [0.59]				1,34 [0.047]			2,05 [4.5]
WK600-30-6-1		30 [1.18]				1,65 [0.058]			2,15 [4.7]
WK600-50-6-1	1,06	50 [1.97]	6	6	50	2,06 [0.073]	5 to 30	- 5 to +75	2,30 [5.1]
WK600-70-6-1	[238]	70 [2.76]	[1350lbf]	[0.24]	[1.97]	2,47 [0.087]	3 10 30	[23 to 167]	2,40 [5.3]
WK600-120-6-1		120 [4.72]				3,50 [0.124]			2,70 [6.0]
WK600-200-6-1		200 [7.87]				5,15 [0.182]			3,20 [7.1]
WK1000-15-7-1		15 [0.59]				2,20 [0.078]			3,60 [7.9]
WK1000-30-7-1		30 [1.18]				2,66 [0.094]			3,80 [8.4]
WK1000-50-7-1	1,75	50 [1.97]	10	7*	63	3,26 [0.115]	5 to 30	- 5 to +75	4,10 [9.0]
WK1000-70-7-1	[393]	70 [2.76]	[2250lbf]	[0.27]	[2.48]	3,85 [0.136]	3 10 30	[23 to 167]	4,40 [9.7]
WK1000-120-7-1		120 [4.72]				5,35 [0.189]			5,20 [11.5]
WK1000-200-7-1		200 [7.87]				7,74 [0.273]			6,40 [14.1]
WK3000-15-6-1		15 [0.59]				4,48 [0.158]			11,80 [26.0]
WK3000-30-6-1		30 [1.18]				5,20 [0.184]			12,50 [27.6]
WK3000-50-6-1	3	50 [1.97]	30	6*	85	6,17 [0.218]	5 to 25	- 5 to +75	13,40 [29.5]
WK3000-70-6-1	[674]	70 [2.76]	[4500lbf]	[0.24]	[3.35]	7,13 [0.252]	3 10 23	[23 to 167]	14,30 [31.5]
WK3000-120-6-1		120 [4.72]				9,54 [0.337]			16,60 [36.6]
WK3000-200-6-1		200 [7.87]				13,40 [0.473]			20,20 [44.5]
WK4500-15-6-1		15 [0.59]				6,18 [0.218]			13,30 [29.3]
WK4500-30-6-1		30 [1.18]				7,17 [0.253]			14,00 [30.9]
WK4500-50-6-1	4,2	50 [1.97]	45	6*	100	8,50 [0.300]	5 to 25	- 5 to +75	15,00 [33.1]
WK4500-70-6-1	[944]	70 [2.76]	[10120lbf]	[0.24]	[3.94]	9,83 [0.347]	3 10 23	[23 to 167]	15,80 [34.8]
WK4500-120-6-1		120 [4.72]				13,20 [0.466]			18,10 [39.9]
WK4500-200-6-1		200 [7.87]				18,50 [0.653]			21,70 [47.8]
WK6000-30-6		[1.18] 30				[0.367] 10,40			24,00 [52.9]
WK6000-50-6	6,0	[1.97] 50	60,0	6*	125,0	[0.454] 12,85	5 to 25	- 5 to +75	24,50 [54.0]
WK6000-70-6	[1350]	[2.76] 70	[13490lbf]	[0.24]	[4.92]	[0.536] 15,17	J 10 Z3	[23 to 167]	25,00 [55.1]
WK6000-120-6		[4.72] 120				[0.747] 21,15			26,50 [58.4]

^{*} Power strokes up to 12 mm and other forward strokes upon request

Type **WK** Technical Information

Type WK in standard version



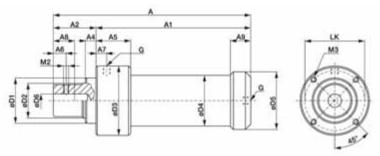
											ersion of								
Model			Dif	ference	es of di	imensi	ons for	cylind	er with	magn	et piston	rings s	ee cho	art on p	page 1	4.10)		
	Α	A ₁	A ₂	A ₃	A ₄	A ₅	A ₇	A8**	A9	Ø D ₁	Ø D ₂	ØD ₃	Ø D ₄	Ø D ₅	ø d ₆	M ₂	M ₃	LK	G
WK400-15-6-1	186 [7.32]	145 [5.71]																	
WK400-30-6-1	201 [7.91]	160 [6.30]																	
WK400-50-6-1	221 [8.70]	180 [7.09]	41	21	12	39	10	25	23,5	40 _{h7}	25 _{h7}	63	44	49	1047		M5, 10mm	[2.13]	1 /0
WK400-70-6-1	241 [9.49]	200 [7.87]	[1.61]	[0.83]	[0.47]	[1.54]	[0.39]	[0.98]	[0.93]	[1.57]		[2.48]	[1.73]	[1.93]	10 ^{H7}	MO	deep [0.06]	54	1/8
WK400-120-6-1	291 [11.46]	250 [9.84]																	
WK400-200-6-1	371 [14.61]	330 [12.99]																	
WK600-15-6-1	201 [7.91]	160 [6.30]																	
WK600-30-6-1	216 [8.50]	175 [6.89]																	
WK600-50-6-1	236 [9.29]	195 [7.68]	41	21	12	39	10	25	23,5	40 _{h7}	²⁵ h7	73	54	[2.32]	10 ^{H7}		M6, 10mm	[2.52]	1 /0
WK600-70-6-1	256 [10.08]	215 [8.46]	[1.61]	[0.83]	[0.47]	[1.54]	[0.39]	[0.98]			[0.98]	[2.87]	[2.13]	59	10"	Mo	deep [0.06]	64	1/8
WK600-120-6-1	306 [12.05]	265 [10.43]																	
WK600-200-6-1	386 [15.20]	345 [13.58]																	
WK1000-15-7-1	243 [9.57]	187[7. 36]																	
WK1000-30-7-1	258 [10.16]	202 [7.95]																	
WK1000-50-7-1	278 [10.94]	222 [8.74]	56	25	15	52	10	40	29	63 _{h8}	40 _{h7}	99,5	68	74,5	20 ^{H7}		M8, 12mm	85	1 /0
WK1000-70-7-1	298 [11.73]	242 [9.53]	[2.20]	[0.98]	[0.59]	[2.05]	[0.39]	[1.57]			[1.57]				20""	MÖ	deep [0.98]	[3.35]	1/8
WK1000-120-7-1	348 [13.70]	292 [11.50]																	
WK1000-200-7-1	428 [16.85]	372 [14.65]																	

Continued on next page



Type WK Technical Information (continued)

Type WK in standard version



Model			Diffe	rences	of din					dard ve ı magn				hart o	n page	e 14.1	10		
	A	A ₁	A ₂	A ₃	A ₄	A ₅	A ₇	A8**	A9	Ø D ₁	Ø D ₂	Ø D ₃	Ø D ₄	Ø D ₅	ø d ₆	M ₂	M3	LK	G
WK3000-15-6-1	315 [12.40]	235 [9.25]																	
WK3000-30-6-1	330 [12.99]	250 [9.84]																	
WK3000-50-6-1	350 [13.78]	270 [10.63]		35	20	70	20	40	45			130	95	108	25 ^{H7}	M10	M10, 16mm		1/4
WK3000-70-6-1	370 [14.57]	290 [11.42]	[3.15]	[1.38]	[0.79]	[2./6]	[0.79]	[1.5/]	[1.77]	[3.35]	[2.56]	[5.12]	[3./4]	[4.25]			deep [16]	[4.41]	
WK3000-120-6-1	420 [16.54]	340 [13.39]																	
WK3000-200-6-1	500 [19.69]	420 [16.54]																	
WK4500-15-6-1	315 [12.40]	235 [9.25]																	
WK4500-30-6-1	330 [12.99]	250 [9.84]																	
WK4500-50-6-1	350 [13.78]	270 [10.63]	80	35	20	70	20	40	45	85 _{h8}	65 _{h7}	145	110	123	25H7	M10	M10, 16mm	127	1/4
WK4500-70-6-1	370 [14.57]	290 [11.42]	[3.15]	[1.38]	[0.79]	[2.76]	[0.79]	[1.57]	[1.77]	[3.35]	[2.56]	[5.71]	[4.33]	[4.84]	25	MIO	deep [1.65]	[5.00]	1/4
WK4500-120-6-1	420 [16.54]	340 [13.39]																	
WK4500-200-6-1	500 [19.69]	420 [16.54]																	
WK6000-30-6	365 [14.37]	285 [11.22]																	
WK6000-50-6	[15.16] 385	305 [12.01]	80	20	48	24	22	40	53	85 _{h8}	65 _{h7}	178	135	148	25 ^{H7}	M10	M10, 16mm	150	1/2
WK6000-70-6	405 [15.94]	325 [12.80]	[3.15]	[0.79]	[1.89]	[0.94]	[0.87]	[1.57]	[2.09]	[3.35]			[5.31]	[5.83]	25	/W(10	deep [1.65]	[5.91]	1/2
WK6000-120-6	455 [17.91]	375 [14.76]																	

^{**} Usable depth of bore with ISO fit D6

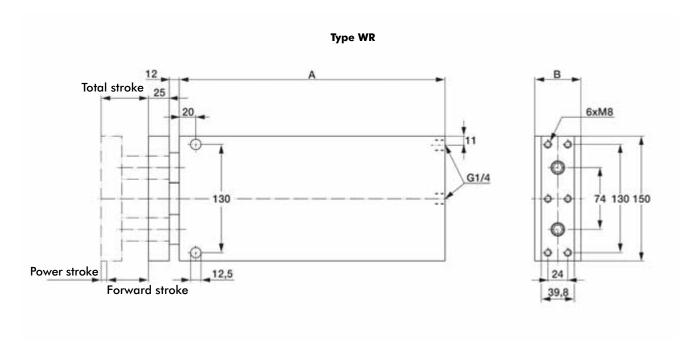


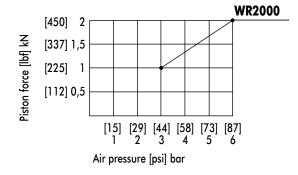
Type WR Product Overview



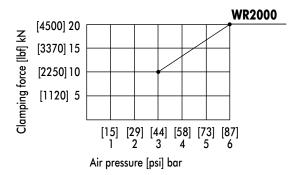
Piston rods prevent twisting

Use only clean, water- and oilfree compressed air. Force must be transmitted via the centre of the pressure plate. One-sided loading of the pressure plate should be avoided. For punching applications contact our technical support! See page 14.2 for more information.





Return stroke force: half of piston force



Air pressure: max. [87psi] 6 bar; min. [44psi] 3 bar

Model	Piston force within forward stroke at 6 bar kN [lbf]	Forward stroke mm [in]	Clamping force within power stroke at 6 bar [lbf] kN]	Power stroke mm [in]	Piston dia. mm [in]	Air consumption per double stroke at 6 bar dm³ [ft³]	Stroke frequency depending on total stroke [min-1]	Temperature range °C [°F]	Weight kg [lbs]	A	В
WR 2000-15-7		15 [0.59]				2,44 [0.086]			12,5 [27.6]	285	51,6
WR 2000-30-7		30 [1.18]		_		2,95 [0.104]			14,0 [30.9]	300	51,6
WR 2000-50-7	2 [450]	50 [1.97]	20 [4500]	/ [0 27]	70	3,62 [0.128]	5 - 25	-5 up to +75	15,5 [34.1]	320	55,6
WR 2000-70-7	[430]	[450] 70 [2.76] [4500] [0.27] [2.76] 4,27 [0.151] [2.76]	[23 10 00 107]	17,2 [37.9]	340	55,6					
WR 2000-120-7		120 [4.72]				5,94 [0.210]			21,0 [46.3]	390	59,6



Magnetic Field Sensing -A

Pneumatic Power Cylinders Type K and WK with end position control by magnetic field sensors.

For the sizes

K and WK 400...., K and WK 600..., K and WK 1000.... K and WK 3000..., K and WK 4500...

Change of Model

Indicate "-A" at the end of Model instead of "-1" for standard version!

Example:

K400 – 15 – 6 – 1 change to K400 – 15 – 6 – A WK 3000 – 50 – 6 – 1 change to WK 3000 - 50 – 6 – A

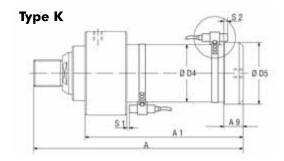
Change in construction

Only the dimensions \varnothing D4, \varnothing D5, A/A 1 and A9 are different to the standard version.



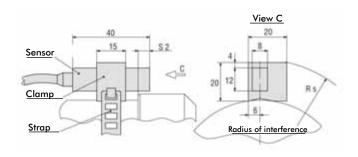
Standard equipment (as shown above)

Pneumatic Power Cylinders with "-A" at the end of Model are completely furnished with a magnetic piston ring and with two mounted sensor sets (Model SMB-102157, consisting of magnetic field sensor with 3m cable, clamp and strap)

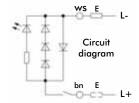


Switching po	ints of ser	isors			nces of di with stanc		
For sizes	S1*	S2*	Ø D4	Ø D5	A/A 1	A9	Rs
K 400A	5	12	-	-	+15	-	44
K 1000A	10	18	-	-	+15	-	56
K 3000A	5	14	90	97	-	30	67
K 45000A	5	12	106	113	-	28,5	75

^{*} Approx. data, because of magnet field variations. S1 refers to the max. power stroke and enlarges up to 60 mm, when smaller power strokes are used.



Circuit diagram and technical data of sensor set Model **SMB-102157**, consisting of magnetic field sensor with 3 m cable, clamp and strap (2 sets per cylinder are standard equipment).



Switching voltage	10250 VAC/DC
Switching current	0,5 A
Switching power	20 W/30 VA
Function	normally open contact
Protection class	IP 67 (DIN 40050)
Indicator	LED

Type WK	nto.	401	\$2
		0.04	0 05
	81		A9
	- A	A 1	

nts of sen	isors					
S1*	S2*	Ø D4	Ø D5	A/A 1	A9	Rs
5	12	-	-	+15	-	44
10	18	-	-	+15	-	56
5	14	90	97	-	30	67
5	12	106	113	-	28,5	75
	\$1* 5 10 5	5 12 10 18 5 14 5 12	S1* S2* Ø D4 5 12 - 10 18 - 5 14 90 5 12 106	S1* S2* Ø D4 Ø D5 5 12 - - 10 18 - - 5 14 90 97 5 12 106 113	compared with stand S1* S2* Ø D4 Ø D5 A/A 1 5 12 - - +15 10 18 - - +15 5 14 90 97 - 5 12 106 113 -	S1* S2* Ø D4 Ø D5 A/A 1 A9 5 12 - - +15 - 10 18 - - +15 - 5 14 90 97 - 30 5 12 106 113 - 28,5

^{*} Approx. data, because of magnet field variations. S1 refers to the max. power stroke and enlarges up to 60 mm, when smaller power strokes are used.

Magnetic field sensing -K



Sensor cage for T-slot proximity sensor

For the sizes

K and WK 400...., K and WK 600..., K and WK 1000...., K and WK 3000..., K and WK 4500...

Change of Model

Indicate "-K" at the end of Model instead of "-A" for standard version! Example: K400 – 15 – 6 – A change to K400 – 15 – 6 – K WK 3000 - 50 - 6 - A change to WK 3000 - 50 - 6 - K

• Benefits:

Small radii of interference! Customer specific T-slut sensors are usable!

Standard equipment:

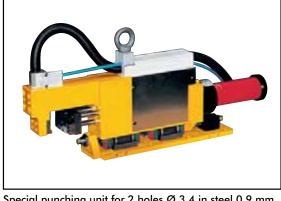
Pneumatic power cylinder with "-K" at the end of Model are supplied with mounted sensor cages but without T-slot sensors.



Press frame



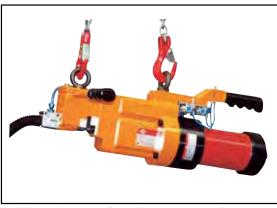
Radius clinching unit for profiled aluminium



Special punching unit for 2 holes Ø 3,4 in steel 0,9 mm



Special device for 2 holes Ø 12 in steel 1,2 mm



Mobile punching unit for holes \emptyset 6,2 in crossbeams



Device for holes Ø 8 in sheet metal



Stamping units placed in line



Stamping units placed in line



Welding fixture for exhaust components