

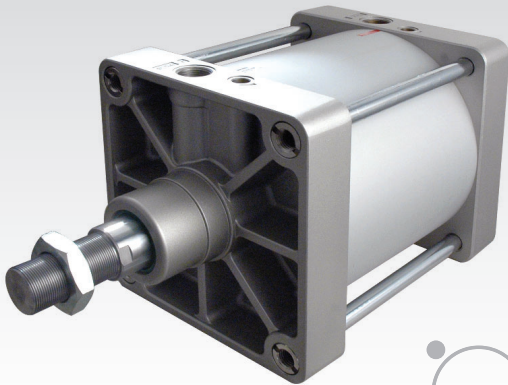
K 250/320

Pneumatic cylinders ISO 15552

- High payload series
- With aluminium tube and tie-rods
- High temperature seals available on request

Available ATEX version upon request

CE Ex II 2Gc IIC T5 II 2Dc T100°C



TECHNICAL CHARACTERISTICS

Working temperature	-20 ÷ 80 °C
Fluid	filtered air, with or without lubrication
Working pressure	1,5 ÷ 10 bar
Bore size	Ø160 - 200 mm
Cushioning	adjustable in both sides

CONSTRUCTIVE CHARACTERISTICS

End caps	die-cast aluminium (painted)
Barrel	anodized aluminium
Tie rod	zinc-plated steel
Piston	die-cast aluminium
Piston rod guide	acetal resin
Piston rod	chromium -plated steel (standard)
	stainless steel, rolled AISI 303
Piston rod scraper seals	nitrile rubber (NBR)
Piston seal	nitrile rubber (NBR)
Magnet	plasto-ferrite

CODIFICATION KEY

K	2	0	0	2	5	0	0	0	8	0		
1	2	3		4			5		6	7		

1 Series	2 Type	3 Version	4 Bore (mm)
K = Ø 250/320 mm - ISO 15552 Pneumatic Cylinders	1 = Stainless steel piston rod 2 = Chromium-plated steel piston rod	00 = D.A. Standard version 01 = D.A. Through piston rod D.A. = Double acting	250 = Ø250 320 = Ø320
5 Stroke (mm)	6 Magnetic	7 ATEX version	
0025 = 25 0150 = 150 0320 = 320 0700 = 700	M = Magnetic version	X = Atex (upon request)	
0050 = 50 0160 = 160 0350 = 350 0800 = 800		See ATEX Catalogue for types and versions	
0075 = 75 0175 = 175 0400 = 400 0900 = 900			
0080 = 80 0200 = 200 0450 = 450 1000 = 1000			
0100 = 100 0250 = 250 0500 = 500			
0125 = 125 0300 = 300 0600 = 600			

Versions with high temperature seals (max 120°C) and version with low temperature seals (max -30°C) available upon request.

Subject to change

Stroke
tolerances

Ø	mm	
	mm	mm
250	+4 - 0	+5 - 0
320	+4 - 0	+5 - 0

Theoretical forces (N)
at different working pressure (bar)

Ø	Surface area		Working pressure						Working pressure					
	mm²		bar						bar					
	Thrust	Traction	Thrust						Traction					
			2	4	6	8	10		2	4	6	8	10	
250	49087	43850	9817	19635	29452	39270	49087	9770	17540	26310	34080	43850		
320	80425	71144	16085	32170	48255	64340	80425	14029	28058	43066	57115	71144		

Cushion

Length	Max kinetic energy absorption
mm	Nm
45	56
45	98

Mass - Standard cylinder

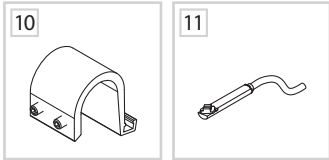
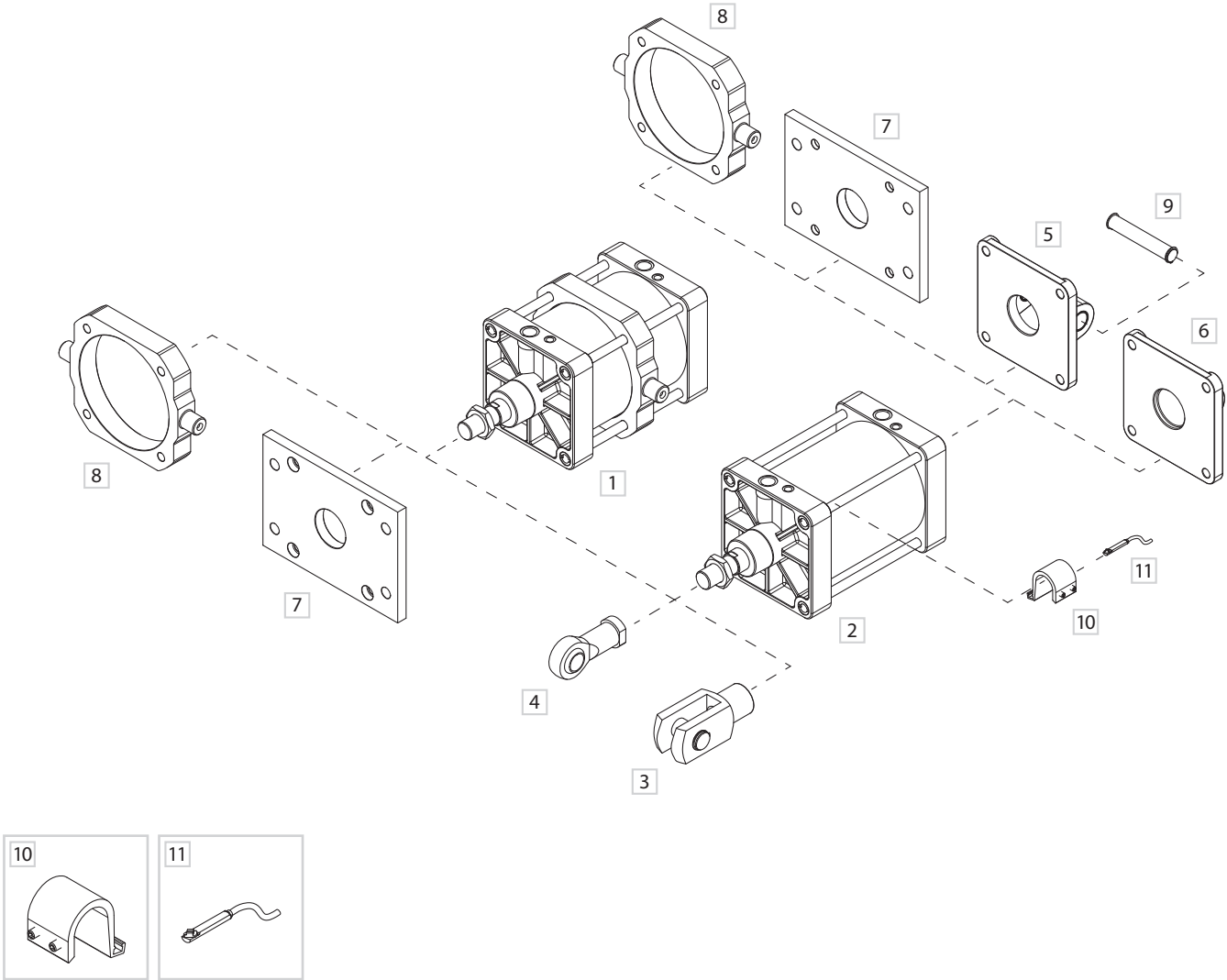
Ø	Cylinder - stroke 0	Increase per mm stroke	Moving element - stroke 0	Increase per mm stroke
	g	g	g	g
250	25830	65	6320	15
320	39100	226	7100	24

1

Mass - Through piston rod cylinder

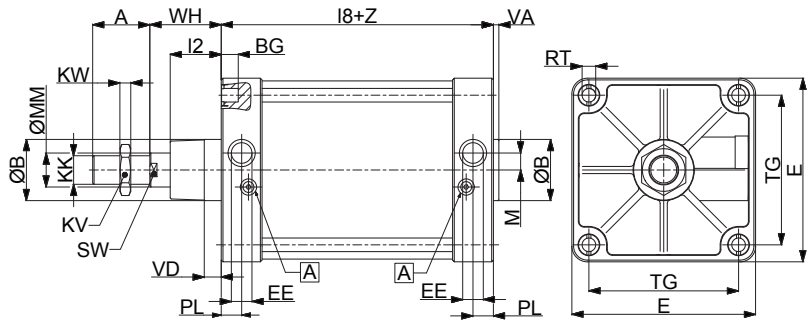
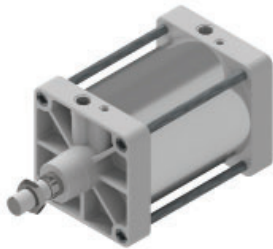
Ø	Cylinder - stroke 0	Increase per mm stroke	Moving element - stroke 0	Increase per mm stroke
	g	g	g	g
250	28180	116	7300	15
320	40570	297	8200	24

Fixing elements and accessories

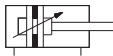
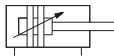


DESCRIPTION		PART NO.
1	ISO cylinder with intermediate hinge	-
2	ISO cylinder	-
3	Female fork with pin	KF-15__
4	Articulated self-lubricating fork	KF-17__
5	Female rear hinge (ISO MP2)	KF-10__ A
6	Male rear hinge (ISO MP4)	KF-11__
7	Front- rear flange (ISO MF1-MF2)	KF-12__
8	ISO intermediate hinge (ISO MT4)	KF-14__
9	Pin for hinge (ISO MP2)	KF-18__
10	Sensor bracket	DH-K__
11	DF sensor	DF-__

Double acting standard version



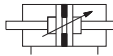
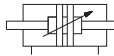
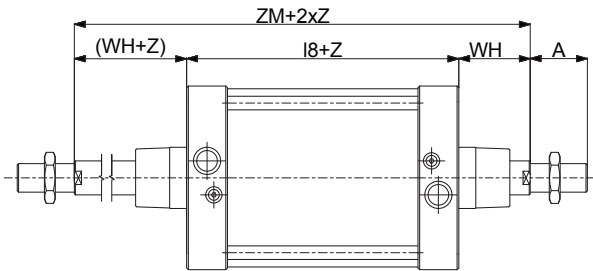
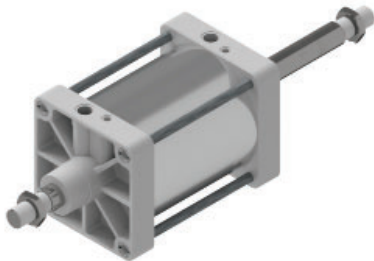
A Pneumatic cushioning adjusting screw



K100/200

For extended rod version add **WH+Z**(stroke) dimensions

Double acting through piston rod



K101/201

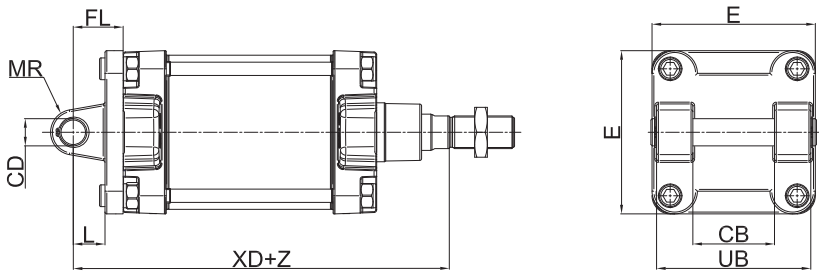
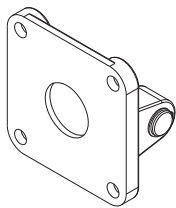
Z = Stroke

Ø	A ^(a)	B	BG	E	EE ^(b)	KK ^(a)	KV	KW	I2	I8		M	MM	PL	RT	SW	TG		VA	VD	WH		ZM
		e11																					
250	84	90	25	270	G1"	M42x2	65	16	75	200	±1,1	25	50	30	M20	46	220	±1,1	8	25	105	±2,2	410
320	96	100	28	350	G1"	M48x2	75	18	90	220	±1,1	35	63	30	M24	55	270	±1,1	10	25	120	±2,2	460

(a) = A and KK dimension according to ISO 4395 b) = EE dimension according to ISO 228/1

For all other dimensions please refer to the standard version
Other versions available on request

Female rear hinge (ISO MP2)

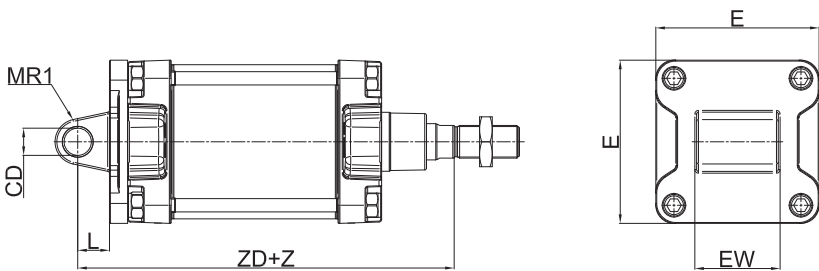
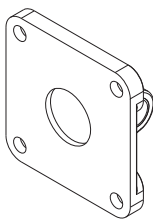


Material: Aluminium body
PTFE and steel bushing

Z = Stroke

Cylinder Ø	CB	CD	E	FL	L	MR	UB	XD		Mass	Part no.
	H14	H9		± 0,2	min.	max	h14			g	
250	110	40	270	70	45	40	200	375	± 2,5	5400	KF-10250A
320	220	45	350	80	50	45	220	420	± 2,5	9950	KF-10320A

Rear male hinge (ISO MP4)



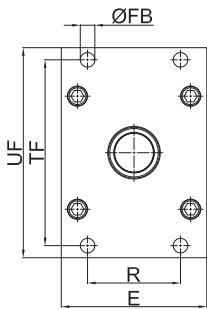
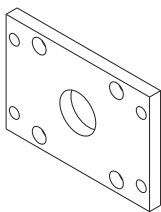
Material: Aluminium body
PTFE and steel bushing

Z = Stroke

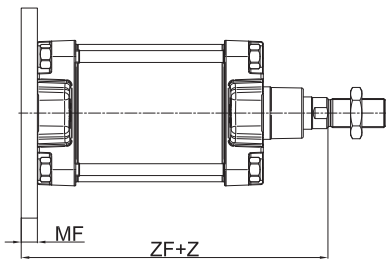
Cylinder Ø	CD	E	EW		L	MR1	XD		Mass	Part no.
	H9				min.				g	
250	40	270	110	- 1,2	45	40	375	± 2,5	5800	KF-11250
320	45	350	120	- 1,2	50	45	420	± 2,5	10800	KF-11320

* = Non-standard dimension

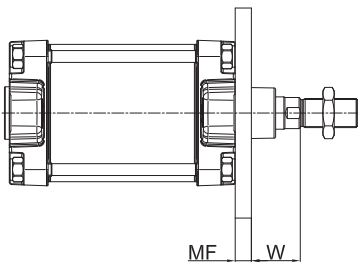
Front/rear flange (ISO MF1-MF2)



> Rear assembly



> Front assembly



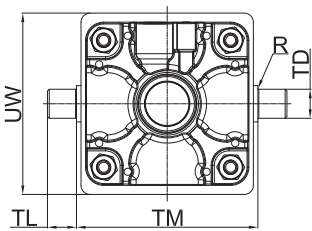
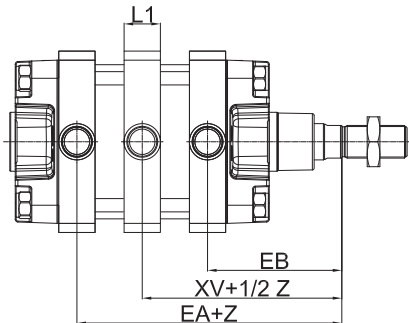
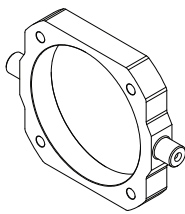
Material: Zinc-plated steel

Z = Stroke

Cylinder Ø	E	FB	MF	R	TF	UF	W		ZF		Mass	Part no.
		H13	± 0,2	JS14	JS14	max					g	
250	285	26	25	165	330	400	80	± 2,5	330	± 2,5	18400	KF-12250
320	350	33	30	200	400	470	90	± 2,5	370	± 2,5	31800	KF-12320

VDMA standard upon request

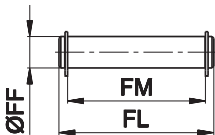
ISO intermediate hinge (ISO MT4)



Material: Zinc-plated steel Z = Stroke

Cylinder Ø	EA	EB	TD	TL	TM	UW	L1	XV	R	Mass g	Part no.
	Max	Max									
250	220	105	40	40	320	295	50	205	2	12800	KF-14250
320	245	215	50	50	400	370	70	230	2	24600	KF-14320

Pin with 2 circlips

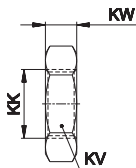


Material: Zinc-plated steel

Cylinder Ø	FF f8	FL	FM	Mass g	Part no.
250	37,5	211	202	1800	KF-18250
320	42,5	234	222	2600	KF-18320

* = Pin for part no. KF-10...

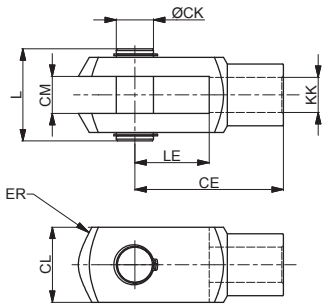
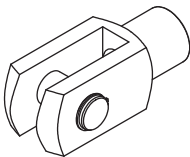
Piston rod locknut



Material: Zinc-plated steel

Cylinder Ø	KK	KV	KW	Mass g	Part no.
250	M42 x 2	65	16	300	KF-16250
320	M48 x 2	75	18	450	KF-16320

Female fork with clips

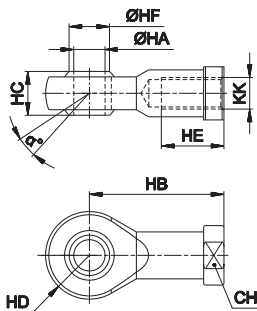
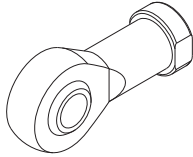


Material: Zinc-plated steel

Cylinder Ø	CE	CK	CL	CM B12	ER	KK	L	LE	Mass g	Part no.
250	168	42	85	40	65	M42 x 2	104	84	6141	KF-15250
320	192	50	96	50	81	M48 x 2	117	96	10189	KF-15320

Fork with pin suitable for piston rod according to ISO 8140 standard

Articulated self-lubricating fork



Cylinder Ø	α°	CH	KK	HA H7	HB	HC	HD 0 -0,12	HE	HF	Mass g	Part no.
250	16	55	M42 x 2	40	142	49	91	60	45,1	2372	KF-17250
320	14	65	M48 x 2	50	162	60	117	65	56,6	5620	KF-17320