KALLER®

Short height

KS 250-750
K 500-5000

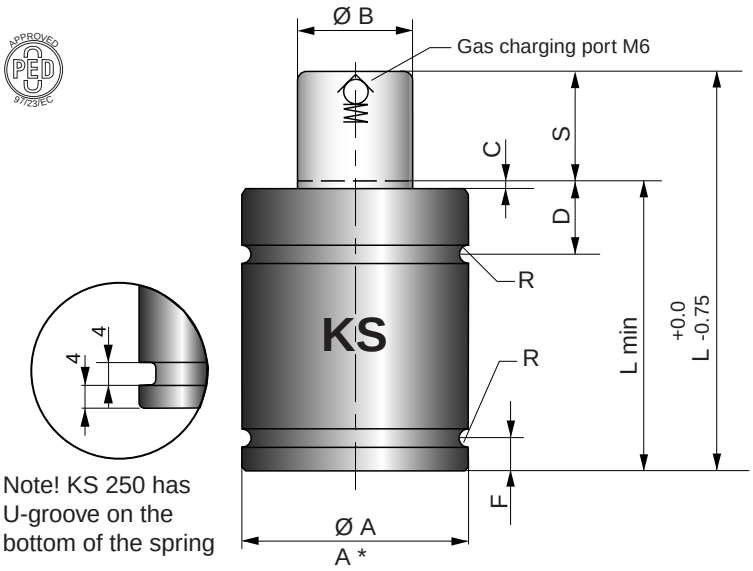
APPROVED PED 97/23/EC

New!
K 5000

by
STRÖMSHOLMEN

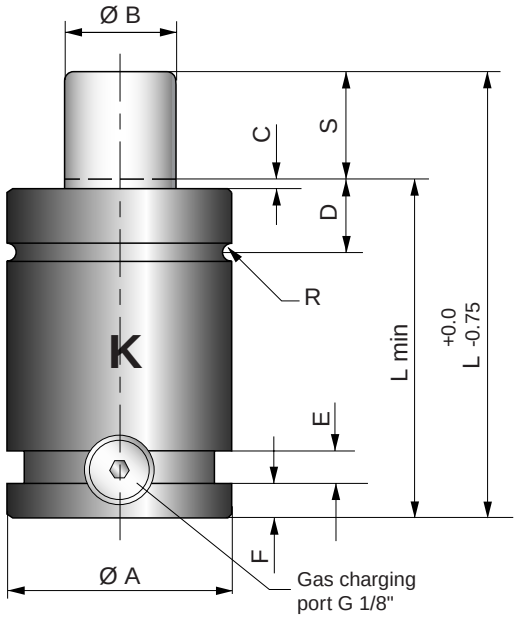
KALLER®

Dimensions



Note! KS 250 has U-groove on the bottom of the spring

* = The KSM 500 and KSM 750 springs have a threaded cylinder tube, other dimensions correspond to KS 500 and KS 750.



Order No.	Spring force, in N at 150 bar/+20° C		ØA/A*	Ø B	C	D	E	F	R
	Initial	End force.							
KS 250	2650	3600	38 $^{+0}_{-0,2}$	15	2	12.5	4	4	1
KS 500	4700	6800	45.2 $^{+0,1}_{-0,1}$	20	1	15.5	--	7	1
KSM 500	4700	6800	M45 x 1,5	20	1	--	--	--	--
KSM 750	7400	12000	M50 x 1,5	25	1	--	--	--	--
KS 750	7400	12000	50.2 $^{+0,1}_{-0,1}$	25	1	15.5	--	7	2
K 500	4700	6800	45.2 $^{+0,1}_{-0,1}$	20	1	15.5	4	4	1
K 750	7400	12000	50.2 $^{+0,1}_{-0,1}$	25	1	15.5	7	8	2
K 1500	15000	23000	75.2 $^{+0,1}_{-0,1}$	36	3	21	7	8	1.6
K 3000	30000	48000	95.2 $^{+0,1}_{-0,1}$	50	3	24	7	8	1.6
K 5000	50000	85000	120.2 $^{+0,1}_{-0,1}$	65	3	25.5	7	8	2.5

S Stroke	KS 250		KS 500, KSM 500		KS 750, KSM 750		K 500, K 750		K 1500		K 3000		K 5000	
	L	L min	L	L min	L	L min	L	L min	L	L min	L	L min	L	L min
6	--	--	--	--	--	--	62	56	--	--	--	--	--	--
12.7	55.4	42,7	57,4	44.7	63.4	50.7	75.4	62.7	--	--	--	--	--	--
15	60	45	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	70.1	51.05	76.1	57.05	88.1	69.05	--	--	--	--	--	--
25	80	55	82	57	88	63	100	75	110	85	120	95	130	105
38.1 *	106.2	68.1	108.2	70.1	114.2	76.1	126.2	88.1	136.2	98.1	146.2	108.1	156	118
50	130	80	132	82	138	88	150	100	160	110	170	120	180	130
63.5 *	157	93.5	159	95.5	165	101.5	177	113.5	187	123.5	197	133.5	206	143
80	190	110	192	112	198	118	210	130	220	140	230	150	240	160
100	230	130	232	132	238	138	250	150	260	160	270	170	280	180
125	--	--	282	157	288	163	300	175	--	--	--	--	--	--

* Note! For K 5000, stroke is 38.0 and 63.0 mm

- The KS and K springs are models that have very short height.
- Both springs are available with several mounting possibilities.

Ordering example:
KS 750 - 63.5
Order No. — Stroke length (mm)

Basic Information

Pressure medium ..... Nitrogen
Max. charging pressure ..... 150 bar
Min. charging pressure ..... 50 bar
Operating temperature ..... 0 - +80°C
Force increase by temperature ..... ±0.3%/°C
Recommended max strokes/min ..... ~ 30 (at 20°C)
(For stroke 100, used stroke 95 mm)

Surface:
Tube ..... Black oxide
Rod ..... Chromium plated

Initial force

Calculation of filling pressure for K/KS, to achieve desired initial force:

X = Desired initial force in N

$$\text{Filling pressure} = 150 \bullet \frac{X}{\text{Initial force at 150 bar}}$$

Example: A KS 750 spring to have a desired initial force of 6000 N

$$\text{Filling pressure} = 150 \bullet \frac{6000}{7400} = 122 \text{ bar}$$

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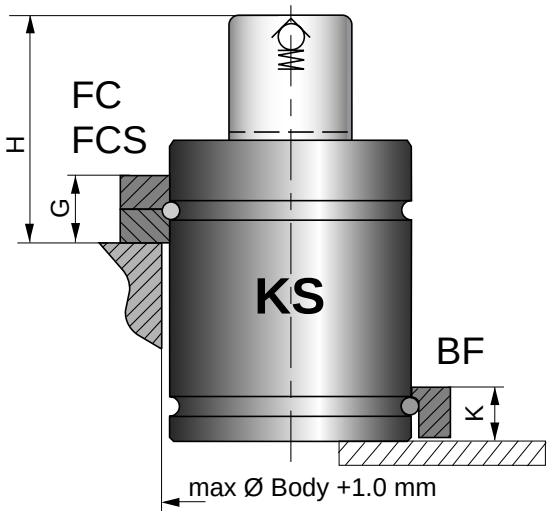
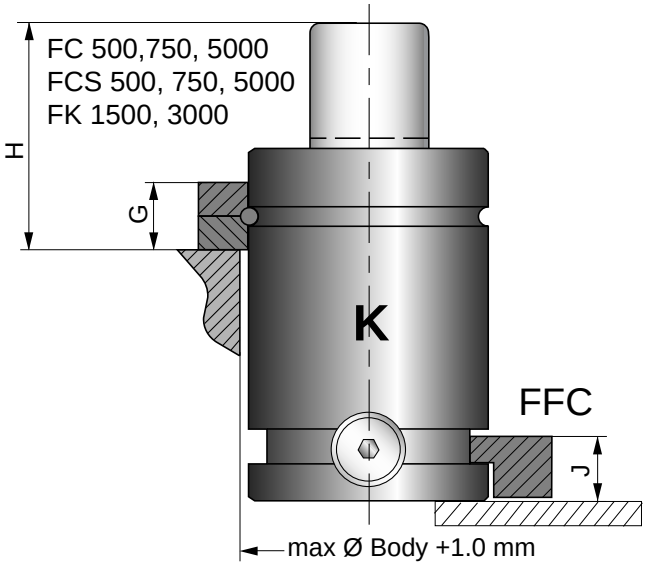
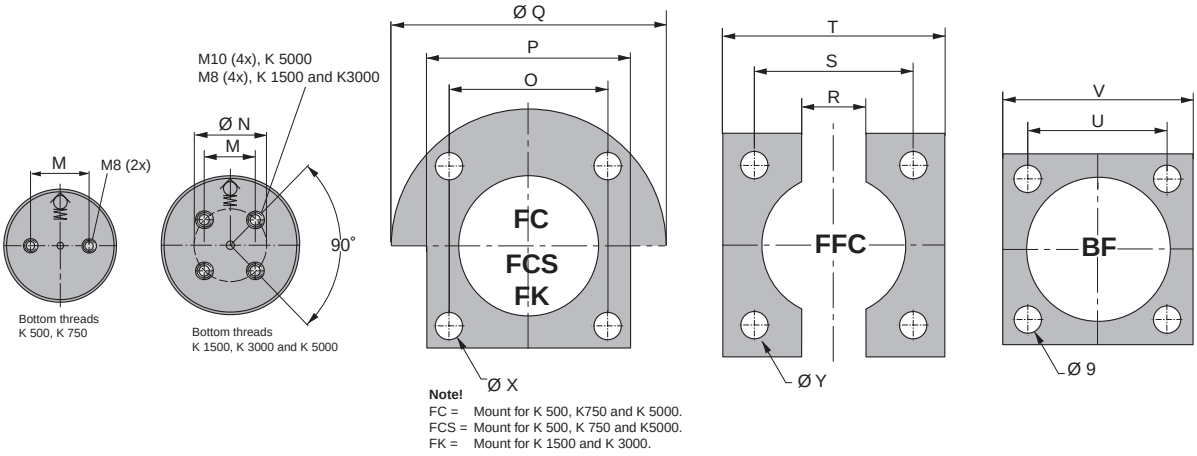
Dimensions mounts



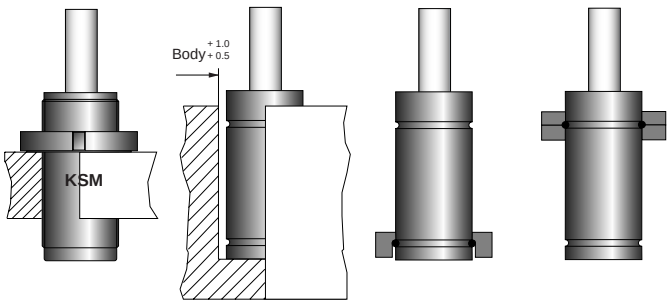


Model	G	H + stroke	J	K	M	Ø N	O	P	Ø Q	R	S	T	U	V	Ø X	Ø Y
KS 250	9	17	6.5	--	--	--	40	52	68	12	40	55	--	--	7	7
KS 500	13	22	--	9.5	--	--	50	64	86	--	--	--	44	60	9	--
KS 750	13	22	--	11.5	--	--	56.5	70	95	--	--	--	48	65	9	--
K 500	13	22	6.4	--	20	--	50	64	86	20	50	70	--	--	9	9
K 750	13	22	12	--	20	--	56.5	70	95	24	56.5	75	--	--	9	9
K 1500	16	29	12	--	28.3	40	73.5	90	--	24	73.5	100	--	--	11	11
K 3000	18	33	12	--	42.4	60	92	110	--	24	92	120	--	--	13.5	13
K 5000	21	36	12	--	56.5	80	109.5	130	175	24	109.5	140	--	--	13.5	13.5



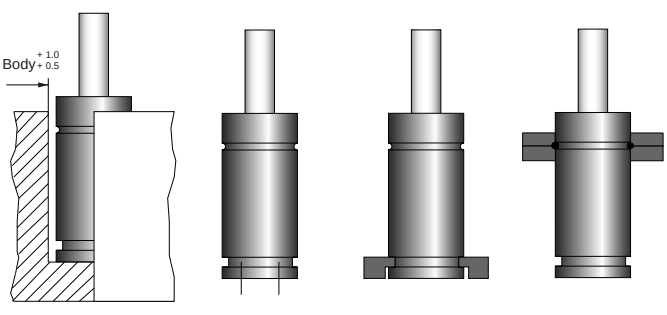
Note!
FC = Mount for K 500, K750 and K 5000.
FCS = Mount for K 500, K 750 and K5000.
FK = Mount for K 1500 and K 3000.

Mounting possibilites KS



Threaded with lock nut FRM | Drop-in | Foot mount BF | Top mount FC FCS

Mounting possibilites K



Drop-in | Bottom threads | Foot mount K KU FFC FU | Top mount FC FCS FK*

KALLER®

World Leader
In Gas Powered Products

Gas Springs
Kaller developed the first nitrogen gas spring for press tools and today offers a comprehensive selection of high quality gas springs for use in different tool & die applications.

Controllable Gas Springs-KF
Kaller controllable springs are a family of gas springs, for use in press tools, that can be locked in their bottom position and where the return stroke of the spring can be controlled.

Flex Cam™
The Flex Cam is used for piercing, cutting, forming and flanging operations. The system allows for a flexible distribution of forces with optimal direction and velocity. By using a Flex Cam, fewer tools are required in production.

Roller Cam
Kaller Roller Cam is used for piercing, trimming, flanging and restriking. The Roller Cam can be mounted in both vertical and horizontal angles.

Counter Balance
Kaller Counter Balance gas springs can be used to lift, lower, assist, balance, and hold in a multitude of applications.

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