

KALLER[®]



New!



Mold Temp MT Series

Mold Temp MT Series



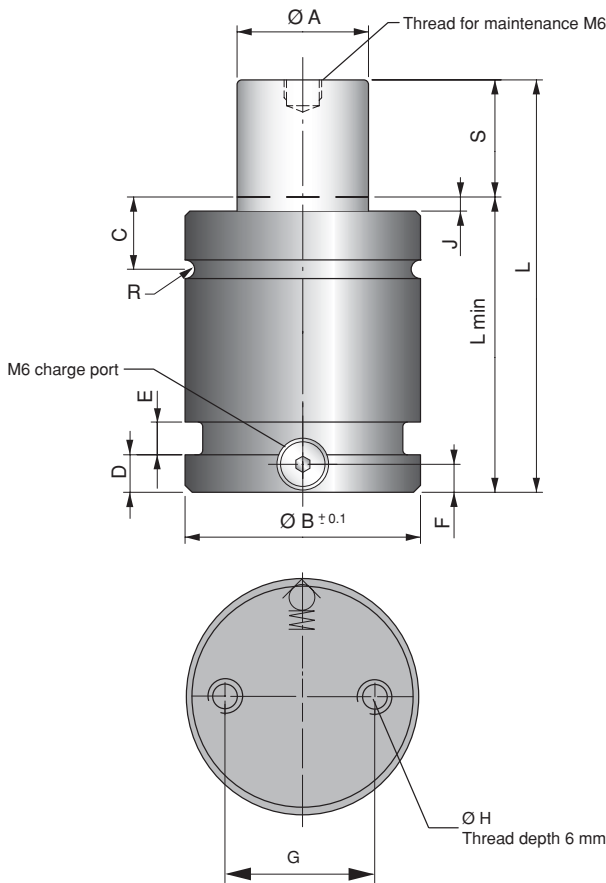
Mold Temp gas springs have been engineered to withstand higher working temperatures, like those commonly associated with plastic molding tools. Mold Temp gas springs are compact and powerful piston rod-sealed gas springs, which can be used in temperatures up to 120°C/248°F.

Millimeters to Inches: $\text{mm} \div 25.4 = \text{inches}$
 Kilograms to Pounds: $\text{Kg} \div 0.45 = \text{pounds}$
 Pounds Force to DecaNewtons: $\text{LbF} \times 0.4448 = \text{decaNewtons}$

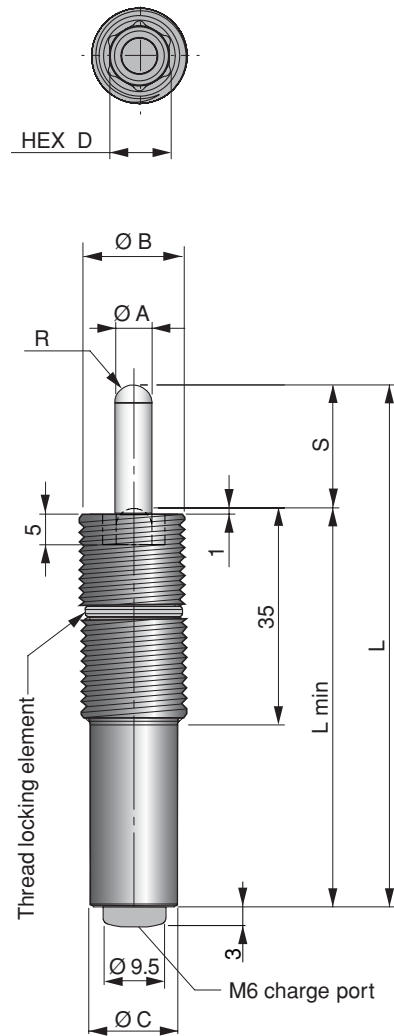
Features:

- For applications up to 120°C/248°F.
- Fully adjustable charge pressure.
- Various mounting possibilities using standard mounts as well as bottom threaded holes.
- MT 16 and MT 24 have threaded upper cylinders for easy and adjustable mounting.
- M6 gas ports can be connected to the special high temp version of Micro-Tube™ system for remote pressure control.

MT 300 to MT 1000 Models



MT 16 & 24 Models



Model	Pounds Force (lbF) Initial	Ø A	Ø B	Ø C	D	R
MT 16	95	6	M16x1.5	13.5	10	3
MT 24	382	12	M24x1.5	21.7	17	8

Model	Pounds Force (lbF) Initial	Ø A	Ø B	C	D	E	F	G	Ø H	J	R
MT 300	675	16	31.9	12.5	4	3.5	6	20	M6	2	1
MT 500	1060	20	37.9	12.5	4	4		25	M6	2	1
MT 750	1665	25	45.2	15.5	4	4		20	M8	2	1
MT 1000	2095	28	50.2	15.5	8	7		20	M8	3	2

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Length dimensions per stroke length

Model	Stroke length								
		10	20	30	40	50	60	70	80
MT 16	L	65	85	105	125	145	165	185	205
	Lmin	55	65	75	85	95	105	115	125
MT 24	L	65	85	105	125	145	165	185	205
	Lmin	55	65	75	85	95	105	115	125

Model	Stroke length											
		10	13	16	19	25	32	38	50	63	75	80
MT 300	L	50	56	62	68	80	94	106	130	156	180	190
	Lmin	40	43	46	49	55	62	68	80	93	105	110
MT 500	L	50	56	62	68	80	94	106	130	156	180	190
	Lmin	40	43	46	49	55	62	68	80	93	105	110
MT 750	L	52	58	64	70	82	96	108	132	158	182	192
	Lmin	42	45	48	51	57	64	70	82	95	107	112
MT 1000	L	-	64	70	76	88	102	114	138	164	188	198
	Lmin	-	51	54	57	63	70	76	88	101	113	118

Longer stroke lengths available at request

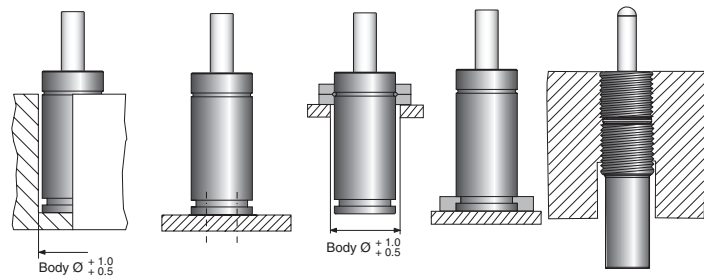
Maximum charge pressure and stroke frequency will depend on the operating temperature, according to the following table:

Operating temperature interval	Max strokes per minute (spm)	Max charge pressure at 20°C (psi)	Pounds Force (lbf) Initial	Gas spring model					
				MT 16	MT 24	MT 300	MT 500	MT 750	MT 1000
0 - 80°C 0 - 176°F	20	2175	at 80°C/176°F (at 20°C/68°F)	115 (95)	460 (382)	817 (679)	1278 (1060)	1996 (1656)	2504 (2079)
80 - 100°C 176 - 212°F	15	1815	at 100°C/212°F (at 20°C/68°F)	101 (80)	405 (318)	720 (565)	1125 (884)	1757 (1381)	2205 (1732)
100 - 120°C 212 - 248°F	10	1670	at 120°C/248°F (at 20°C/68°F)	98 (73)	394 (292)	697 (520)	1090 (812)	1703 (1271)	2139 (1593)

Basic Information

Pressure medium Nitrogen
 Max. charging pressure See table above
 Min. charging pressure 25 bar/360 psi
 Operating temperature 0-120°C/0-248°F
 Force increase by temperature ±0.3%/°C
 Recommended max strokes/min See table above
 Max piston rod velocity 1.0 m/s
 Service life (0 to 80°C) 1,000,000 strokes
 or 100,000 strokometers
 Service life (80 to 120°C) 500,000 strokes
 or 50,000 strokometers
 Tube & rod surface Nitrided
 Repair kits Available for MT 300-1000

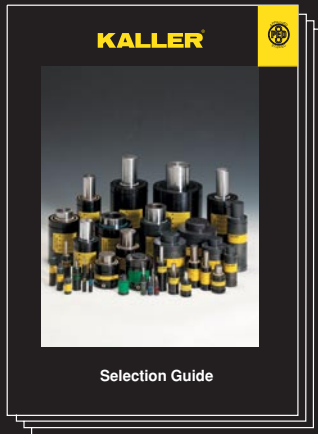
Mounting Possibilities



Drop - In **Bottom Threads** **Top Mount** **Foot Mount** **Thread Mount**
 (Only MT 16 & 24)
 Lock nut available
 M16x1.5 503681
 M24x1.5 503928

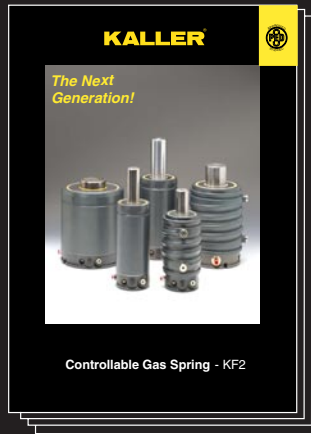
KALLER®

The Safer Choice



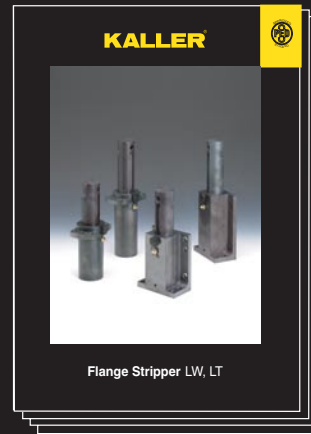
Gas Springs

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.



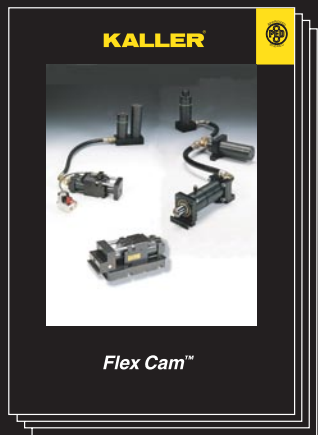
Controllable Gas Springs-KF2

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.



Flange Stripper Unit

Kaller Flange Stripper Unit is used in flanging dies for stripping/lifting a flanged part after forming. It provides 200 daN of stripping force, can be top or bottom mounted and is self guiding.



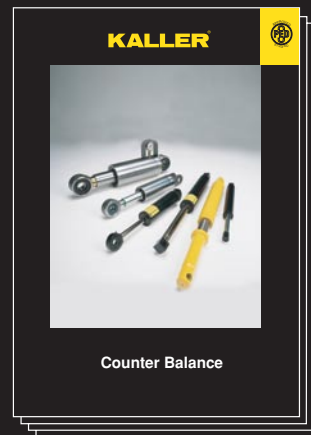
Flex Cam™

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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For more information see our website

www.kaller.com

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