

KALLER®



Mould Temp MT 16 to MT 1000

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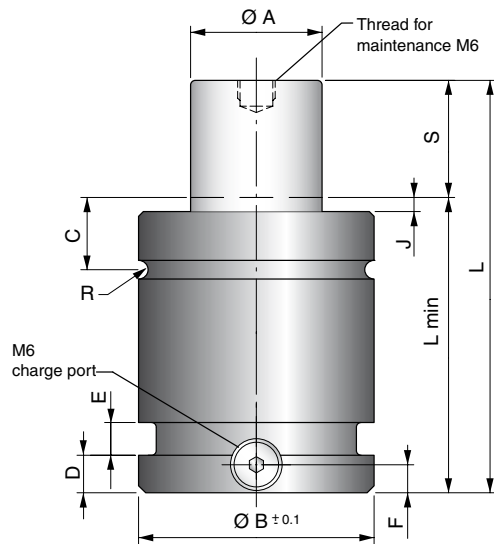


Mould Temp gas springs have been engineered to withstand higher working temperatures, like those commonly associated with plastic moulding tools. Mould Temp gas springs are compact and powerful piston rod sealed gas springs, which can be used in temperatures up to 120°C.

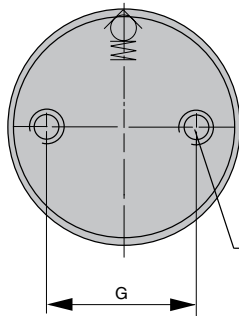
Features:

- For applications up to 120°C
- Fully adjustable charge pressure
- Various mounting possibilities using our 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 our Micro-Tube™ system for remote pressure control

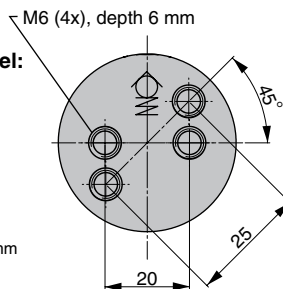
MT 300 to MT 1000 models



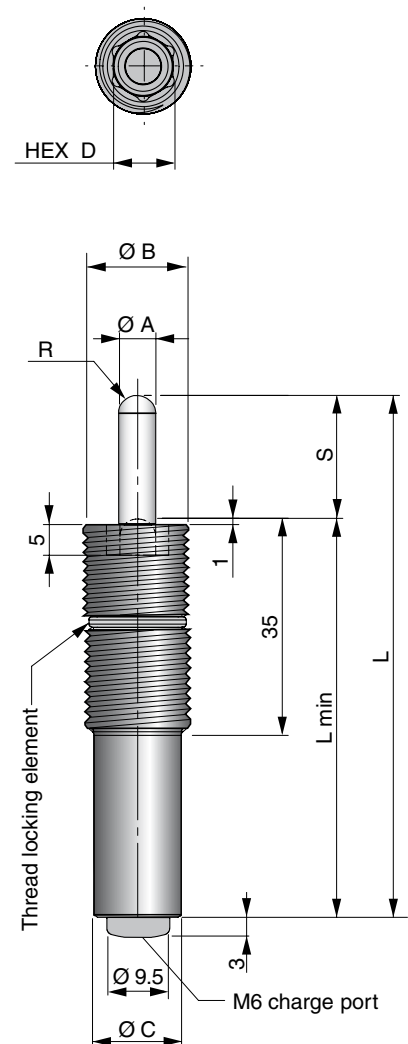
For models:
MT 300,
MT 750
MT 1000



For model:
MT 500



MT 16 & 24 models



Model	Initial force in N at 150 bar/ + 20°C	Ø A	Ø B	Ø C	D	R
MT 16	420	6	M16x1.5	13.5	10	3
MT 24	1700	12	M24x1.5	21.7	17	8

Model	Initial force in N at 150 bar/ + 20°C	Ø A	Ø B	C	D	E	F	G	Ø H	J	R
MT 300	3000	16	31.9	12.5	4	3.5	6	20	M6	2	1
MT 500	4700	20	37.9	12.5	4	4		20/25	M6	2	1
MT 750	7400	25	45.2	16.5	4	4		20	M8	2	1
MT 1000	9300	28	50.2	17.5	8	7		20	M8	3	2

Mould Temp MT 16 to MT 1000

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

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

Operating temperature interval (°C)	Max strokes per minute (spm)	Max charge pressure at 20°C (bar)	Initial force (N)	Spring model					
				MT 16	MT 24	MT 300	MT 500	MT 750	MT 1000
0 - 80	20	150*	at 80°C (at 20°C)	510 (420)	2040 (1700)	3630 (3010)	5680 (4710)	8870 (7360)	11130 (9240)
80 - 100	15	125	at 100°C (at 20°C)	450 (355)	1800 (1415)	3200 (2510)	5000 (3930)	7810 (6140)	9800 (7700)
100 - 120	10	115	at 120°C (at 20°C)	435 (325)	1750 (1300)	3100 (2310)	4850 (3610)	7570 (5650)	9500 (7080)

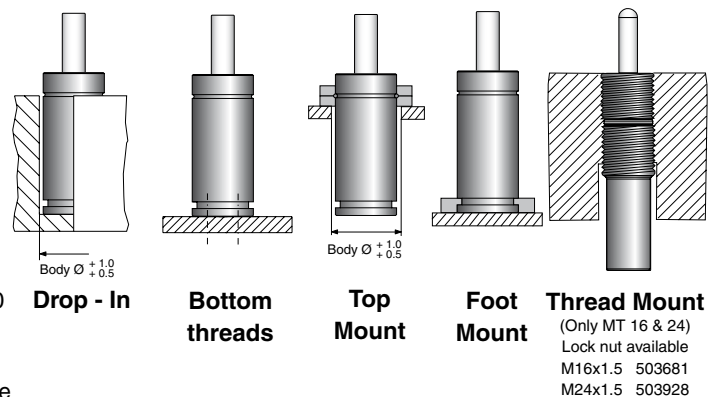
*Pre-charged with 150 bar unless other specified

Basic Information

Pressure medium	Nitrogen
Max. charging pressure	See table above
Min. charging pressure	25 bar (at 20°C)
Operating temperature	0 - +120°C
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 strokemeters*
Service life (80 to 120°C).....	500'000 strokes
or	50'000 strokemeters*
Repair kits.....	Available for MT 300-1000
Rod surface	Nitrided
Tube surface	Black oxide

*For general information see "About gas springs" in main KALLER catalogue

Mounting possibilities



We reserve the right to add, delete or modify components without notification.

All dimensions are stated in mm.
All dimensions are nominal unless tolerance is stated.

KALLER®

The Safer Choice



Selection Guide

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 Spring - KF2

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 LW, LT

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™

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 RC2, RCP2

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

Counter Balance

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

KALLER®

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