

The Safer Choice

Introduced in 1983, the KALLER gas spring technology quickly led to world-wide demand. The Safer Choice - Training, Safety and Reliability - has always been a KALLER top priority for providing the safer working environment. We recommend looking through all available KALLER features when selecting gas springs and gas or hose linked systems.



KALLER Training Program

TRAINING. Without doubt the KALLER Training Program is the best and most creative way to fully understand and appreciate the importance of the safety and reliability features.



PED approved for 2 million strokes

RELIABILITY. Our 2 million stroke PED approval ensures safer component cycle life.



Flex Guide™ System

RELIABILITY. Prolongs service life, allows more strokes per minute, and offers greater tolerance to lateral tool movements.



Dual Seal™ Link Systems

RELIABILITY. Fewer production interruptions due to leakage caused by vibration. Simplified installation thanks to the non-rotation feature.



Overstroke Protection System

SAFETY. When a gas spring is overstroked, this helps reduce the risk of tool damage or injury.



Overload Protection System

SAFETY. Jammed cam or tool part being forced by gas springs? This will help reducing such risks.



Overpressure Protection System

SAFETY. Vents the spring if the internal gas pressure exceeds the maximum allowable limit to prevent accidents.

Product Series
Gas Springs including Standard mounts



The Safer Choice

Gas Spring Selection Guide 2012



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Would you like to order this product?
All available information at www.kaller.com.

Series	Description	Image	Gas spring model	Available stroke lengths* (mm)	Initial force at max pressure		Total length* (mm)	Cylinder diameter (mm)			
					(N)	(lbf)					
EP2/EP3	EP3 16, EP2 24, EPS2 24 are color coded gas Ejector-Pins, fully interchangeable with mechanical spring plungers		EP3 16	10 - 125	420	95	45 + (2 x Stroke)	M16x1.5/ 16x2			
			EP2 24	10 - 125	1,700	380	45 + (2 x Stroke)	M24x1.5			
			EPS2 24	10 - 125	1,700	380	45 + (2 x Stroke)	M24x1.5			
R	R12, R15 & R19 rod sealed and color coded gas springs that are compact and fully adjustable		R12	7 - 125	500	110	42 or 45 + (2 x Stroke)	Ø 12			
			R15	7 - 125	700	160	42 or 45 + (2 x Stroke)	Ø 15			
			R19	7 - 125	900	200	42 or 45 + (2 x Stroke)	Ø 19			
Mini	Repairable, color coded and fully adjustable gas springs available with or without threaded cylinders		M2	10 - 125	2,000	450	42 or 45 + (2 x Stroke)	Ø 25			
			MM2	10 - 125	2,000	450	42 + (2 x Stroke)	M28x1.5			
			MC3	10 - 125	2,000	450	50 + (2 x Stroke)	Ø 32			
CU	Super Compact gas springs that provide extreme forces with minimal Cylinder Diameters		CU 420	6 - 50	4,250	960	56 - 195	Ø 25			
			CU 740	6 - 50	7,400	1,660	63 - 195	Ø 32			
			CU 1000	6 - 50	10,600	2,380	61 - 230	Ø 38			
			CU 1800	6 - 50	18,000	4,045	66 - 220	Ø 50			
			CU 2900	10 - 50	29,500	6,630	85 - 205	Ø 63			
			CU 4700	10 - 50	47,000	10,570	80 - 240	Ø 75			
			CU 7500	10 - 50	75,000	16,860	90 - 255	Ø 95			
			CU 11800	10 - 50	118,000	26,530	100 - 260	Ø 120			
Power Line	The world's shortest, strongest and most advanced rod sealed gas springs		X 170	7 - 125	1,700	380	30 or 35 + (2 x Stroke)	Ø 19			
			X 320	7 - 125	3,200	720	30 or 35 + (2 x Stroke)	Ø 25			
			X 350	10 - 125	3,600	810	30 + (2 x Stroke)	Ø 32			
			X 500	10 - 125	4,700	1,055	30 + (2 x Stroke)	Ø 38			
			X 750	10 - 125	7,400	1,665	32 + (2 x Stroke)	Ø 45			
			X 1000	13 - 125	9,200	2,070	38 + (2 x Stroke)	Ø 50			
			X 1500	13 - 125	15,000	3,375	44 + (2 x Stroke)	Ø 63			
			X 2400	16 - 125	24,000	5,400	45 + (2 x Stroke)	Ø 75			
			X 4200	16 - 125	42,000	9,440	58 + (2 x Stroke)	Ø 95			
			X 6600	16 - 125	66,300	14,905	68 + (2 x Stroke)	Ø 120			
TL	Ranges from model sizes 750 to 7,500, with the same features and technology as the TU. At the same time, the TL gas spring is shorter than the corresponding TU by 25 mm, except TL 5000 and TL 7500, which are 37.5 and 50 mm shorter respectively		TL 750	12.5 - 250	7,400	1,665	70 + (2 x Stroke)	Ø 50			
			TL 1500	12.5 - 250	15,000	3,375	85 + (2 x Stroke)	Ø 75			
			TL 3000	12.5 - 250	30,000	6,740	95 + (2 x Stroke)	Ø 95			
			TL 5000	25 - 250	50,000	11,240	102,5 + (2 x Stroke)	Ø 120			
			TL 7500	25 - 250	75,000	16,860	105 + (2 x Stroke)	Ø 150			
			TU	TU gas springs dimensions are the basis of the International Standards Organisation(ISO 11 901) for gas springs as well as the Ford WDX and GM gas spring standards		TU 250	10 - 125	2,650	790	50 + (2 x Stroke)	Ø 38
						TU 500	10 - 160	4,700	1,055	85 + (2 x Stroke)	Ø 45
TU 750	12.7 - 300	7,400				1,665	95 + (2 x Stroke)	Ø 50			
TU 1500	25 - 300	15,000				3,375	110 + (2 x Stroke)	Ø 75			
TU 3000	25 - 300	30,000				6,740	120 + (2 x Stroke)	Ø 95			
TU 5000	25 - 300	50,000				11,240	140 + (2 x Stroke)	Ø 120			
TU 7500	25 - 300	75,000				16,860	155 + (2 x Stroke)	Ø 150			
TX	The Power Line - Heavy Duty series, a crossover between our standard TU series and our Power Line X series		TX 1000	13 - 300	9,200	2,075	95 + (2 x Stroke)	Ø 50			
			TX 2400	25 - 300	24,000	5,400	110 + (2 x Stroke)	Ø 75			
			TX 4200	25 - 300	42,000	9,450	120 + (2 x Stroke)	Ø 95			
			TX 6600	25 - 300	66,300	14,925	140 + (2 x Stroke)	Ø 120			
			TX 9500	25 - 300	95,000	21,400	155 + (2 x Stroke)	Ø 150			
SPC	Speed Control™ have been engineered to reduce or eliminate blank holder bounce; commonly associated with increased return stroke speeds from link drive presses.		SPC 750	125 - 300	7,400	1,665	110 + (2 x Stroke)	Ø 75			
			SPC 1500	125 - 300	15,000	3,375	120 + (2 x Stroke)	Ø 95			
			SPC 3000	125 - 300	30,000	6,750	140 + (2 x Stroke)	Ø 120			
			SPC 5000	125 - 300	50,000	11,250	155 + (2 x Stroke)	Ø 150			
LCF	These innovative Low Contact Force gas spring are 100% interchangeable with ISO gas springs (i.e. our TU series) and reduce shock loads, noise levels and pad bounce problems		LCF 750	12.7 - 300	7,400	1,665	95 + (2 x Stroke)	Ø 50			
			LCF 1500	25 - 300	15,000	3,375	110 + (2 x Stroke)	Ø 75			
			LCF 3000	25 - 300	30,000	6,740	120 + (2 x Stroke)	Ø 95			
			LCF 5000	25 - 300	50,000	11,240	140 + (2 x Stroke)	Ø 120			
MT	Mould Temp gas springs are compact and powerful piston rod sealed gas springs, which can be used up to 120°C		MT 16	10 - 80	420	95	48 + (2 x Stroke)	M16x1.5			
			MT 24	10 - 80	1,700	380	48 + (2 x Stroke)	M24x1.5			
			MT 300	10 - 80	3,000	675	30 + (2 x Stroke)	Ø 32			
			MT 500	10 - 80	4,700	1,055	30 + (2 x Stroke)	Ø 38			
			MT 750	10 - 80	7,440	1,665	32 + (2 x Stroke)	Ø 45			
MT 1000	13 - 80	9,200	2,070	38 + (2 x Stroke)	Ø 50						

Other KALLER products with unique safety features



The Micro EO24™ Hose and Tube the system is our most compact, soft sealed gas linking system.



Flex Form™ offers an excellent control system both for movement and forces. KALLER can offer a lockable return function or an adjustable slow return.



Hose-less Baseplate™ the increasingly popular easy-accessible alternative to the conventional manifold systems on the market.



Flex Cam® 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.



Controllable Gas Springs-KF2 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.



Roller Cam - RC2, RCP2 used for piercing, trimming, flanging and restriking. The Roller Cam can be mounted in both vertical and horizontal planes.



Stock Lifters & Flange Strippers used in transfer and progression dies to provide self-guiding, non-rotating and easily adjustable lifting or stripping forces.



Soft-hit Striker Plate - SSP has been engineered to address three of the major problems that face metal stampers:

- Excessive shock loads
- High noise levels
- Poor part quality



Die Separation Gas Springs - DS Using the new DS springs is an excellent way to avoid unnecessary wear of die, press and gas springs. A 70-80 % energy saving compared to using traditional springs is an additional benefit.