
Product Series Gas Link Systems

 **KALLER**[®]
The Safer Choice

KALLER Hose-less Baseplate[™]

Edition 4.2014
© Copyright KALLER



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

KALLER Hose-less Baseplate™

– the easy-accessible alternative

KALLER Hose-less Baseplate™ is the increasingly popular easy-accessible alternative to the conventional hosed plate systems on the market. This KALLER product provides all the benefits of self-contained gas springs in a linked system, yet eliminates external plumbing. In addition, fitted with one or more Hose-less Baseplate Tanks (Tank BP) the pressure increase can be reduced resulting for example in press energy savings and more consistent force. With this possibility to reduce the pressure increase KALLER Hose-less Baseplate™ also fits General Motors (GM) standards requirements.

KALLER Hose-less Baseplate™ utilizes KALLER CU4, CX, TL, TU, TX, X and LCF gas springs mounted to a customer specified base plate through a bottom port. The gas springs are attached to the internally drilled base plate with a sealing washer or adapter and standard mounting hardware. All the connecting passages are drilled within the plate, removing the need for external hose and fittings. >>>

KALLER - THE SAFER CHOICE

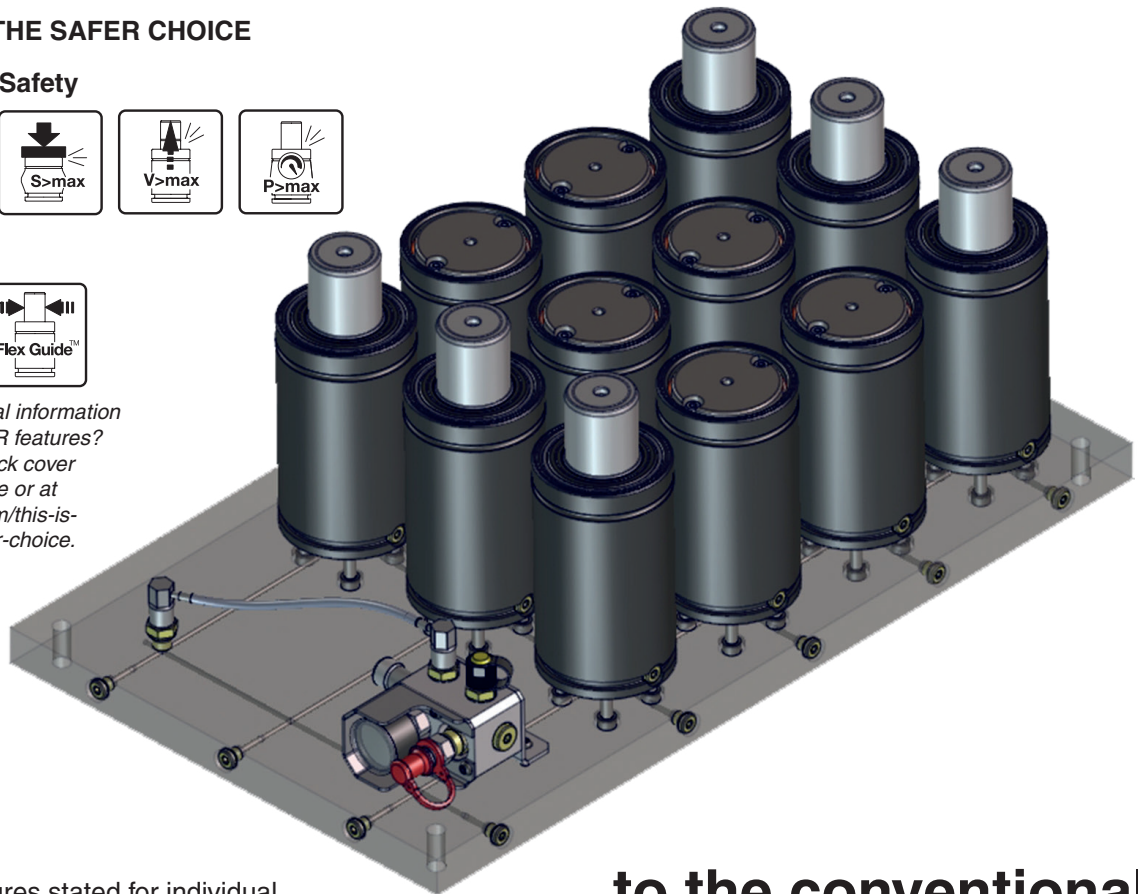
Training Safety



Reliability



Need additional information on the KALLER features? Look at the back cover of this brochure or at www.kaller.com/this-is-kaller/the-safer-choice.



Safety features stated for individual KALLER gas springs are valid also when used in a KALLER Hose-less Baseplate™. An external stop for the tool is recommended to prevent overstroke in the springs.

**...to the conventional
hosed plate systems
on the market**

KALLER Hose-less Baseplate™ is less expensive, has a better performance and is easier to maintain

>>>

KALLER Hose-less Baseplate™ facilitates filling, draining and monitoring from one control panel mounted directly to the baseplate or from outside the die using a KALLER standard linking system.

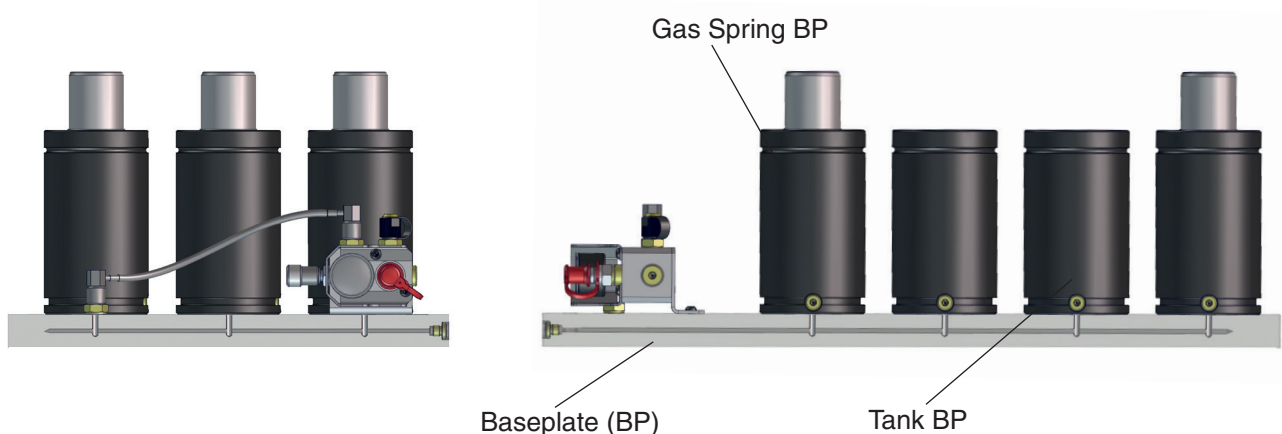
KALLER Hose-less Baseplate™ provides a cleaner die design with the possibility to place more gas springs close together and also eliminate clearance for hoses and connections. This makes the installation easier to maintain compared to other hose linked systems on the market. Each product is factory tested to assure leak-free operation and is shipped ready to install.

To obtain a complete KALLER Hose-less Baseplate™ system you will need:

- KALLER gas springs CU4, CX, TL, TU, TX, X and LCF adapted with square seal or adapter to base-plate
- One or more KALLER Hose-less Baseplate Tanks (Tank BP) to achieve the demanded pressure increase
- A control block with suitable fittings to link to the baseplate
- A customized baseplate produced by the customer or ordered from KALLER offices

...with the possibility to reduce pressure increase

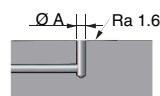
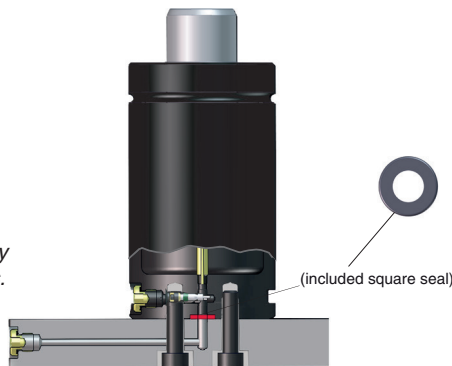
...and it comes with more power in less space !



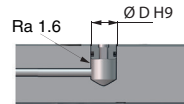
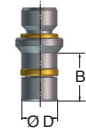
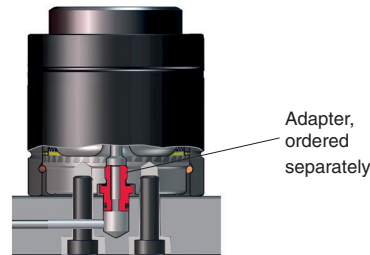
KALLER gas springs BP adapted to baseplate

**Hose-less
Baseplate with
square seal**

*Note!
Installation layout may
vary between models.*



**Hose-less
Baseplate
with adapters**



Adapter Model	Order No.	Ø D	B
CU 10	4016253	10	8
CU 11	4025110	11	8
CX 6	4026218	6	9

KALLER gas springs BP with included square seal

Series	Square seal	Ø A [m] Hole size	Model	Thread size	Torque [Nm] 12.9
X	504847	5	X BP 500	M6	15
			X BP 750	M8	35
			X BP 1000		
			X BP 1500		
			X BP 2400		
	504846	8	X BP 4200	M10	70
			X BP 6600		
			X BP 9500		
			X BP 20000	M12	115
TX	504847	5	TX BP 750	M8	40
			TX BP 1000		
			TX BP 1500		
			TX BP 2400		
			TX BP 4200		
	504846	8	TX BP 6600	M10	79
			TX BP 9500		
			TX BP 20000		
				M12	136

Series	Square seal	Ø A [m] Hole size	Model	Thread size	Torque [Nm] 12.9
TU	504847	5	TU BP 500	M8	40
			TU BP 750		
			TU BP 1500		
	505978	8	TU BP 3000	M10	79
			TU BP 5000		
	504846	8	TU BP 7500	M12	136
TL	504847	5	TL BP 750	M8	40
			TL BP 1500		
	505978	8	TL BP 3000	M10	79
			TL BP 5000		
LCF	504847	5	LCF BP 7500	M12	136
			LCF BP 10000		
			LCF BP 15000		

For more information, see KALLER catalog "Gas Spring Systems and Standard Mounts".

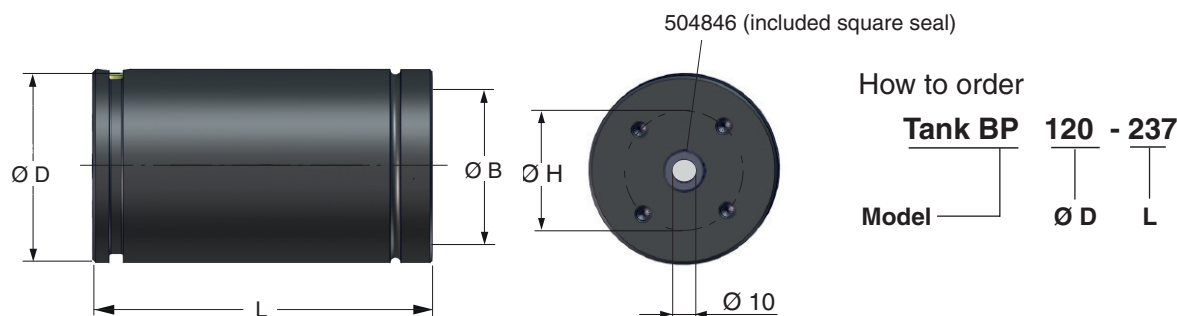
KALLER gas springs BP and adapters

Series	Model	Thread size	Torque [Nm] class 12.9
CU4	CU4 1800	M6	17
	CU4 2900		
	CU4 4700	M8	40
	CU4 7500		
	CU4 11800	M10	79
	CU4 18300		
CX	CX 500	M6	15
	CX 1000		
	CX 1900		

Series	BP adapter
CU4	4025110 or 4016253
CX	4026218

The adapters above have to be ordered separately when CU4 and CX are used.

KALLER Hose-less Baseplate Tanks (Tank BP) suitable for base plate mounting



Model	Ø D [mm]	L [mm]	Volume [l]	Ø B [mm]	Bottom Thread	Depth	Torque (Nm) Class 12	Ø H [mm]
Tank BP 95-167	95	167	0.6	80	M8	13	40	60
Tank BP 95-217		217	0.8					
Tank BP 95-277		277	1.1					
Tank BP 95-317		317	1.3					
Tank BP 95-367		367	1.6					
Tank BP 95-417		417	1.8					
Tank BP 95-467		467	2.1					
Tank BP 95-517		517	2.3					
Tank BP 120-187	120	187	1	100	M10	13	79	80
Tank BP 120-237		237	1.4					
Tank BP 120-297		297	1.9					
Tank BP 120-337		337	2.2					
Tank BP 120-387		387	2.6					
Tank BP 120-437		437	3.0					
Tank BP 120-487		487	3.4					
Tank BP 120-537		537	3.8					
Tank BP 150-202	150	202	1.6	125	M10	16	79	100
Tank BP 150-252		252	2.2					
Tank BP 150-312		312	3.0					
Tank BP 150-352		352	3.5					
Tank BP 150-402		402	4.1					
Tank BP 150-452		452	4.7					
Tank BP 150-502		502	5.4					
Tank BP 150-552		552	6.0					
Tank BP 195-207	195	207	2.7	160	M12	16	136	120
Tank BP 195-257		257	3.7					
Tank BP 195-317		317	4.9					
Tank BP 195-357		357	5.7					
Tank BP 195-407		407	6.7					
Tank BP 195-457		457	7.7					
Tank BP 195-507		507	8.8					
Tank BP 195-557		557	9.8					

To optimize the installation of a base plate, please contact your KALLER Distributor or use the KALLER Force Calculator at kaller.com.

...offer the possibility to reduce pressure increase

Recommendations for KALLER Hose-less Baseplate™ layouts

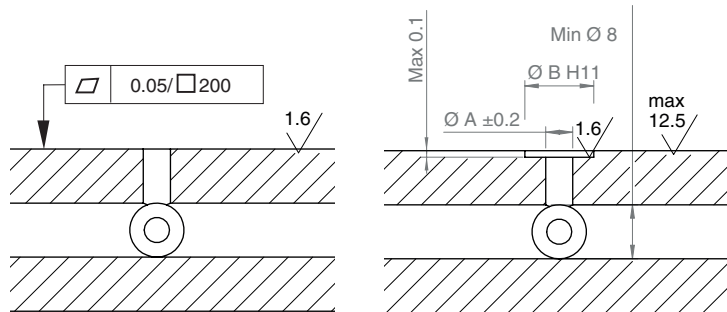
Unless otherwise specified.

A complete customized and factory tested baseplate can be ordered from KALLER Sales & Service Offices. (See kaller.com/contact/)

KALLER Worldwide Guarantee applies to each complete system manufactured by KALLER.

Baseplate hole pattern

To achieve the most cost efficient machining solution, the following options can be used. The plate thickness depends on the number and size of the gas springs and the gas flow.



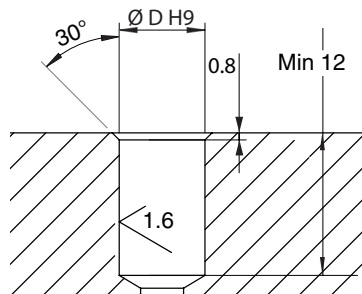
Option 1. Without countersink

Option 2. With countersink

Square Seal	Ø A [mm]	Ø B H11 [mm]
504847	5	11.1
505978	8	14.3
504846	8 or 10*	19.0

*Ø 10 mm holes are used for all gas tanks. It should be at least two outlets between the gas tank and the gas springs.

Adapter hole pattern



Adapter Model	Order No.	Ø D H9 [mm]
CU 10	4016253	10
CU 11	4025110	11
CX 6	4026218	6

Basic information

Pressure medium.....Nitrogen gas (N₂)
 Max. charging pressure.....150 bar
 Min. charging pressure.....25 bar**
 Operating temperature.....0-+80°C
 Plate thickness*.....Min. 25 mm, .98"
 Plate edges.....Burned out and painted
 Fasteners.....Metric High Grade Bolts
 Drilled holes.....see table 2
 Min. wall thickness.....2.5 mm

Baseplate O-ring repl. kit..... 3025238
 Plug G 1/4".....501866
 Plug G 1/8".....502508
 For information about adapters and hoses, please see KALLER catalog "Hose Link Systems".

*Varies by system configuration

** for LCF, see KALLER catalog

...for a more simple and efficient use

The Safer Choice

Introduced in 1983, the KALLER gas spring technology quickly led to worldwide demand. The Safer Choice – Training, Safety and Reliability – has always been a KALLER top priority for providing innovative solutions for 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.



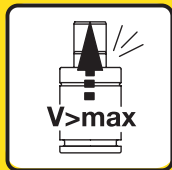
KALLER Safety App

SAFETY. Fake or KALLER original? With the KALLER Safety App you can identify and verify your specific KALLER gas springs.



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.



PED approved for a minimum of 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.