

KALLER®



Gas Spring Service & Maintenance

Gas Spring Service Equipment

KALLER Gas Spring Tool Kits



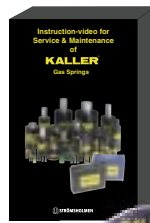
are available in various sets and all come with a protective carry case.

The complete set has **Order No. 1014779** (includes New KALLER Lock Ring Tool)



The new **KALLER Lock Ring Tool** can be used to remove lock rings from all repairable KALLER gas springs and accumulators. Can be ordered separately: **Order No. 3020822**

Service CDs/DVDs/ VHS



and downloads from our website, are available to show you how to perform the service and maintenance of each KALLER gas spring model.



Please note that **Service & Maintenance Instructions** are available for download from our website.

Force Measurement Equipment

The 8000 daN Test Rig



Can be used for initial force measurements of all KALLER gas springs up to and including the TU 7500 and CU 7500.

Analog Version
Order No. 1016714-1100
Order No. 1016714-1300

Digital Version
Order No. 1016713-1100
Order No. 1016713-1300

Features:

- Quick height adjustment
- Digital or analog force indication
- Force displayed in kgf or lbf, Digital version
- Accuracy: $\pm 0.5\%$, Digital Version
- Max. capacity: 8000 kgf (18000 lbf)
- Max. spring height: 530/760 mm (21"/30")
- Dimensions: w=360 mm, d=260 mm, h=1100/1300mm

The 2000 daN Digital Test Rig



Can be used for initial force measurements of all KALLER gas springs up to and including the CU 1800.

Order No. 1018660

Features:

- Quick height adjustment
- Digital force and travel indication
- Force displayed in kgf or lbf
- Accuracy: $\pm 0.5\%$
- Max. capacity: 2000 kgf (4500 lbf)
- Max. spring height: 488 mm (19")
- Dimensions: w=275 mm, d=255 mm, h=930 mm

For more information contact your local KALLER Supplier or us directly at www.kaller.com

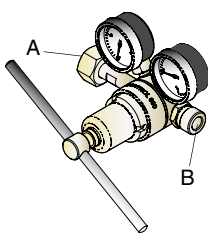
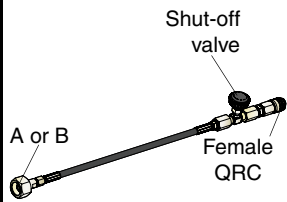
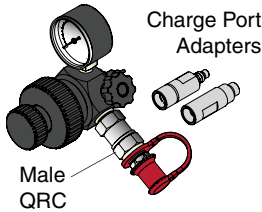

Gas Charging Equipment

Our Gas Charging Equipment is available with or without a Pressure Regulator (recommended with) for nitrogen gas charging of self contained gas springs and/or hosed systems and is delivered in a robust and portable plastic case. The equipment comes with 2m of hose as standard.

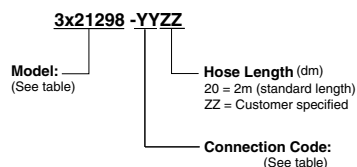
Different countries have different bottle connections. Make sure the correct connection code is selected according to the table below. When ordering equipment including regulator, charging hose connection thread is always according to B. If ordered without regulator the connection on the hose is according to A.

Hosed systems can be charged via a Control Block using the female quick release coupling (QRC) with shut-off valve. By attaching the Control Armature with male QRC, self contained gas springs can be charged using a suitable Charge Port Adapter.

The following table shows the various combinations of Gas Charging Equipment available:

Model: Order No.	Pressure Regulator:	Charging Hose	Control Armature: Order No. 4215072	Protective Case: Order No. 503919
				
3021298 - YYZZ	X	X	X	X
3121298 - YYZZ	--	X	X	X
3221298 - YYZZ	X	X	--	X
3421298 - YYZZ	X	X	X	--
3521298 - YYZZ	--	X	X	--
3621298 - YYZZ	X	X	--	--
3721298 - YYZZ	--	X	--	--
Connection Code (YY)	Country example	Threads		Pressure Regulator Can be ordered separately using. Order No.*
		A Bottle Connection	B Regulator Connection	
01	Sweden	W24.32x1/4" Female	W24.32x1/4"	4021296
02	India	G 5/8" Male	W24.32x1/4"	4121296
03	China	G 5/8" Female	W24.32x1/4"	4221296
04	UK	G 3/8" Female	W24.32x1/4"	--

How to order:



*When connecting Pressure Regulator to Charging Hose, connection must be according to B. Connection B with W24.32x1/4" female for charging hose can be ordered separately, **Order No. 4013715.**

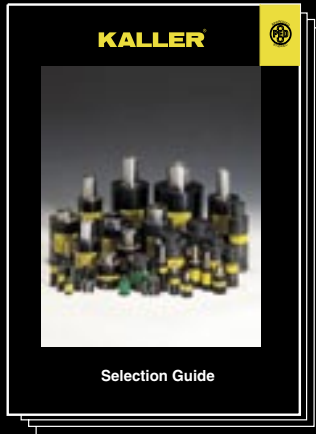
For more information contact your local KALLER Supplier or us directly at www.kaller.com

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



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.



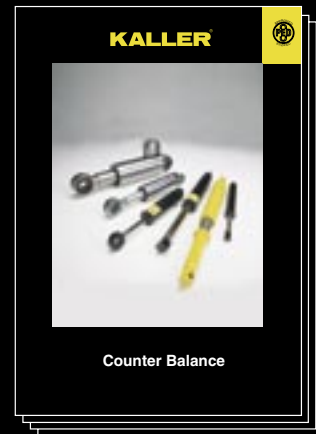
Flex Cam™

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.

KALLER®

Strömsholmen AB

Box 216 • SE-573 23 Tranås • Sweden

Phone +46 140-571 00 • Fax +46 140-571 99

info@kaller.com • www.kaller.com



33382 Groesbeck Highway, Fraser,
MI 48026

Phone: +1 586 415 6677, Fax +1 586 415 6699