

KALLER®



New!
CU 420, CU 740 & CU 2900

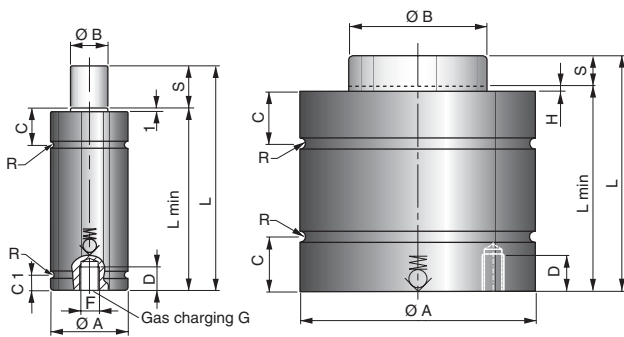


Super Compact CU 420-18300

by

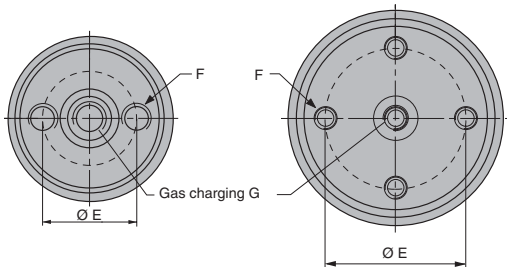
 **STRÖMSHOLMEN**

Dimensions



CU 420 - CU 740

CU 1000 - CU18300



Bottom view
CU 740 - CU 2900

Bottom view
CU 4700 - CU18300

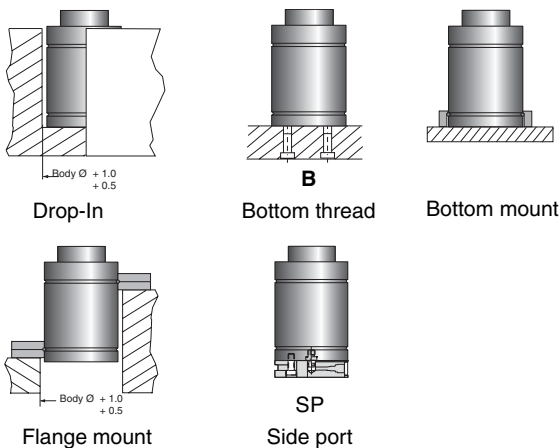
CU gas springs are very compact bore sealed springs, which provide the highest force per cylinder diameter.

CU gas springs are ideal where space is limited in the die and very high forces are required.

CU gas springs can be linked together and charged remotely using a control block and hose system. Repair kits are also available for all CU models except the CU 420 and CU 740.

For more information, see our main KALLER catalogue.

Mounting options



| Model | Drop in | B | Bottom mount | | Flange mount | | | | SP |
|----------|---------|---|--------------|-----|--------------|------------|-----|----|----|
| | | | BFCU | BFP | FC | FCS FCX | FCR | FK | |
| CU 420 | X | X | | | | | X | | |
| CU 740 | X | X | | | X | | | | |
| CU 1000 | X | X | X | | X | X | | | X |
| CU 1800 | X | X | X | | X | X | | | X |
| CU 2900 | X | X | | | | X | | | X |
| CU 4700 | X | X | | X | | | | X | X |
| CU 7500 | X | X | | X | | | | X | X |
| CU 11800 | X | X | X | | X | X | | | X |
| CU 18300 | X | X | X | | X | X | | | X |

X = Mount is available for this model

Basic Information

| | |
|-------------------------------------|---|
| Pressure medium | Nitrogen |
| Max. charging pressure | 150 bar |
| Min. charging pressure | 25 bar |
| Operating temperature | 0 - +80°C |
| Force increase by temperature | ±0.3%/°C |
| Recommended max strokes/min | ~ 100 (at 20° C) |
| Max piston rod velocity | 0.5 m/s |
| Repair Kit | Available for model sizes CU 1000 to CU 18300 |

Note! See main catalogue for more information.

Initial force

Calculation of charge pressure for CU, to achieve desired initial force:

X = Desired initial force in N

$$\text{Charge pressure} = 150 \cdot \frac{X}{\text{Initial force at 150 bar}}$$

Example: CU 4700 to have a desired initial force of 25000 N

$$\text{Charge pressure} = 150 \cdot \frac{25000}{47000} \approx 80 \text{ bar}$$

Dimensions

| Order No. | S Stroke | Force in N at 150 bar/+20°C | | L ± 0.25 | L min | Ø A ±0.1 | Ø B | C/C1 | D | Ø E | F | G | H | R |
|-------------|----------|-----------------------------|-------------|----------|-------|----------|-----|-----------|-----|-----|-----|--------|-----|-----|
| | | Initial | End force** | | | | | | | | | | | |
| CU 420-006 | 6 | 4250 | 7000 | 56 | 50 | 24.9 | 12 | 11.5/5 | 5 | -- | M6 | M6 | 1 | 1 |
| CU 420-010 | 10 | | 6900 | 70 | 60 | | | | | | | | | |
| CU 420-016 | 16 | | 6900 | 91 | 75 | | | | | | | | | |
| CU 420-025 | 25 | | 6900 | 120 | 95 | | | | | | | | | |
| CU 420-032 | 32* | | 7600 | 140 | 108 | | | | | | | | | |
| CU 420-040 | 40* | | 7600 | 165 | 125 | | | | | | | | | |
| CU 420-050 | 50* | 7600 | 195 | 145 | | | | | | | | | | |
| CU 740-006 | 6 | 7400 | 9800 | 63 | 57 | 31.9 | 20 | 11.5/10.5 | 5.5 | 15 | M6 | M6 | 1 | 1 |
| CU 740-010 | 10 | | 10000 | 75 | 65 | | | | | | | | | |
| CU 740-016 | 16 | | 11000 | 93 | 77 | | | | | | | | | |
| CU 740-025 | 25 | | 12000 | 120 | 95 | | | | | | | | | |
| CU 740-032 | 32* | | 12000 | 140 | 108 | | | | | | | | | |
| CU 740-040 | 40* | | 12000 | 165 | 125 | | | | | | | | | |
| CU 740-050 | 50* | 12000 | 195 | 145 | | | | | | | | | | |
| CU 1000-06 | 6 | 10600 | 16000 | 61 | 55 | 37.9 | 20 | 10.5 | 6.5 | 17 | M6 | M6 | 0.5 | 1 |
| CU 1000-10 | 10 | | 16000 | 78 | 68 | | | | | | | | | |
| CU 1000-16 | 16 | | 16000 | 100 | 84 | | | | | | | | | |
| CU 1000-25 | 25 | | 16000 | 135 | 110 | | | | | | | | | |
| CU 1000-32 | 32* | | 16000 | 167 | 135 | | | | | | | | | |
| CU 1000-40 | 40* | | 16000 | 195 | 155 | | | | | | | | | |
| CU 1000-50 | 50* | 16000 | 230 | 180 | | | | | | | | | | |
| CU 1800-06 | 6 | 18000 | 25000 | 66 | 60 | 50.2 | 30 | 14.5 | 6.5 | 26 | M6 | G1/8" | 0.5 | 2 |
| CU 1800-10 | 10 | | 26000 | 80 | 70 | | | | | | | | | |
| CU 1800-16 | 16 | | 26000 | 106 | 90 | | | | | | | | | |
| CU 1800-25 | 25 | | 27000 | 135 | 110 | | | | | | | | | |
| CU 1800-32 | 32* | | 27000 | 162 | 130 | | | | | | | | | |
| CU 1800-40 | 40* | | 28000 | 190 | 150 | | | | | | | | | |
| CU 1800-50 | 50* | 29000 | 220 | 170 | | | | | | | | | | |
| CU 2900-010 | 10 | 29500 | 38500 | 85 | 75 | 63.2 | 45 | 19/18 | 9 | 34 | M8 | G 1/8" | 1 | 2 |
| CU 2900-016 | 16 | | 41000 | 103 | 87 | | | | | | | | | |
| CU 2900-025 | 25 | | 43000 | 130 | 105 | | | | | | | | | |
| CU 2900-032 | 32* | | 44200 | 150 | 118 | | | | | | | | | |
| CU 2900-040 | 40* | | 45200 | 175 | 135 | | | | | | | | | |
| CU 2900-050 | 50* | | 45800 | 205 | 155 | | | | | | | | | |
| CU 4700-10 | 10 | 47000 | 67000 | 80 | 70 | 75.2 | 50 | 18 | 9 | 40 | M8 | G1/8" | 0.5 | 1.5 |
| CU 4700-16 | 16 | | 66000 | 106 | 90 | | | | | | | | | |
| CU 4700-25 | 25 | | 68000 | 135 | 110 | | | | | | | | | |
| CU 4700-32 | 32* | | 67000 | 167 | 135 | | | | | | | | | |
| CU 4700-40 | 40* | | 67000 | 200 | 160 | | | | | | | | | |
| CU 4700-50 | 50* | | 67000 | 240 | 190 | | | | | | | | | |
| CU 7500-10 | 10 | 75000 | 104000 | 90 | 80 | 95.2 | 55 | 21 | 9 | 52 | M8 | G1/8" | 0.5 | 1.5 |
| CU 7500-16 | 16 | | 104000 | 116 | 100 | | | | | | | | | |
| CU 7500-25 | 25 | | 109000 | 145 | 120 | | | | | | | | | |
| CU 7500-32 | 32* | | 105000 | 182 | 150 | | | | | | | | | |
| CU 7500-40 | 40* | | 107000 | 210 | 170 | | | | | | | | | |
| CU 7500-50 | 50* | | 106000 | 255 | 205 | | | | | | | | | |
| CU 11800-10 | 10 | 118000 | 155000 | 100 | 90 | 120.2 | 70 | 22.5 | 11 | 68 | M10 | G1/8" | 0.5 | 2.5 |
| CU 11800-16 | 16 | | 158000 | 126 | 110 | | | | | | | | | |
| CU 11800-25 | 25 | | 170000 | 155 | 130 | | | | | | | | | |
| CU 11800-32 | 32* | | 164000 | 187 | 155 | | | | | | | | | |
| CU 11800-40 | 40* | | 165000 | 220 | 180 | | | | | | | | | |
| CU 11800-50 | 50* | | 166000 | 260 | 210 | | | | | | | | | |
| CU 18300-10 | 10 | 184000 | 235000 | 110 | 100 | 150.2 | 90 | 24.5 | 11 | 90 | M10 | G1/8" | 0.5 | 2.5 |
| CU 18300-16 | 16 | | 252000 | 136 | 120 | | | | | | | | | |
| CU 18300-25 | 25 | | 254000 | 165 | 140 | | | | | | | | | |
| CU 18300-32 | 32* | | 251000 | 197 | 165 | | | | | | | | | |
| CU 18300-40 | 40* | | 250000 | 235 | 195 | | | | | | | | | |
| CU 18300-50 | 50* | | 255000 | 270 | 220 | | | | | | | | | |

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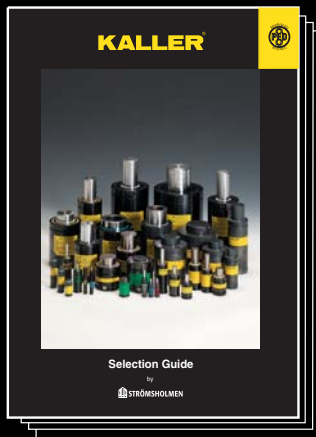
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Note! * For stroke lengths over 25 mm, the spring should be attached to the tool using the tapped holes in the bottom or using flanges. We also recommend shorter stroke springs to be fastened for optimal service-life.
** At full stroke

KALLER®

The Safe 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.

 **STRÖMSHOLMEN**
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

 **KALLER®**
GAS SPRINGS

33280 Groesbeck Highway, Fraser,
MI 48026

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