

This is the smallest member of the CU4 family. As with the rest of the CU4 springs it has a very high force compared to its outer diameter.

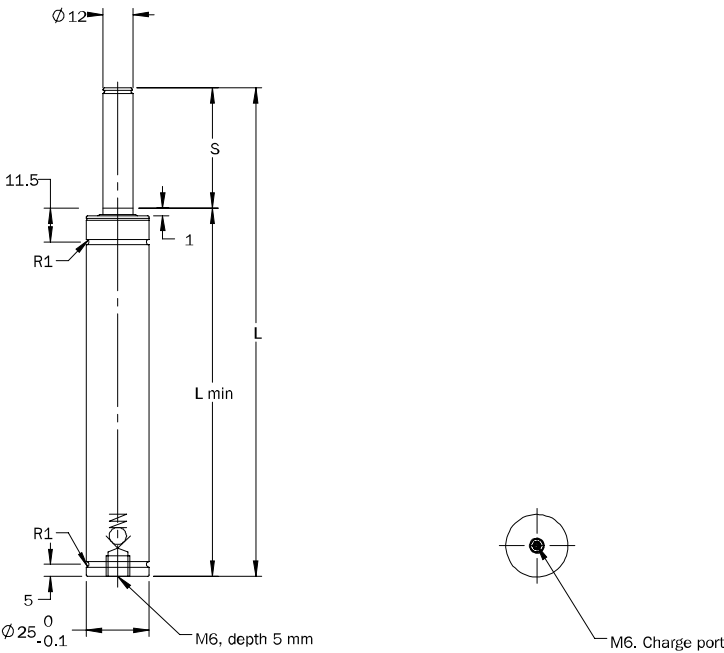


Basic information

For general information see “About gas springs”.

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 50-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	Non-repairable

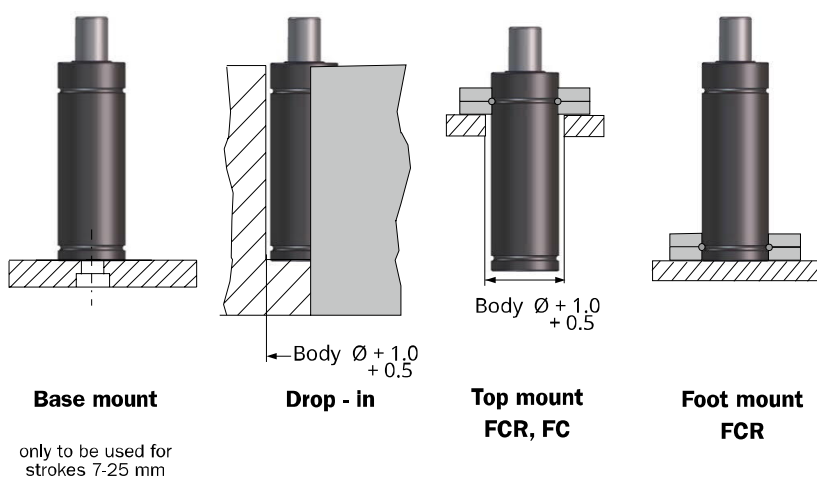
Automotive standard: 5937643, 5937644, 5937645, 5937646, 5937647, 5937648



Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force*	Initial	End force*				
CU4 420-006	6	4,250	7,300	955	1,641	56	50	0.003	0.13
CU4 420-010	10 ■		7,300		1,416	70	60	0.005	0.15
CU4 420-016	16 ■		7,300		1,416	91	75	0.008	0.18
CU4 420-025	25 ■		7,400		1,439	120	95	0.011	0.22
CU4 420-032	32		7,900		1,776	140	108	0.021	0.24
CU4 420-040	40		8,000		1,800	165	125	0.026	0.27
CU4 420-050	50		8,000		1,800	195	145	0.032	0.31

* Isothermal end force at full stroke. ■ Recommended stroke length for optimal delivery.

Mounting possibilities



Recommended mounts



Additional mounts

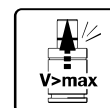
FCN-150

231

Note!

For dimensions on all mount options, refer to "Mounts" in chapter 3.

The CU4 gas springs are a very compact bore sealed gas springs, offering impressive force in a compact body. Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring.

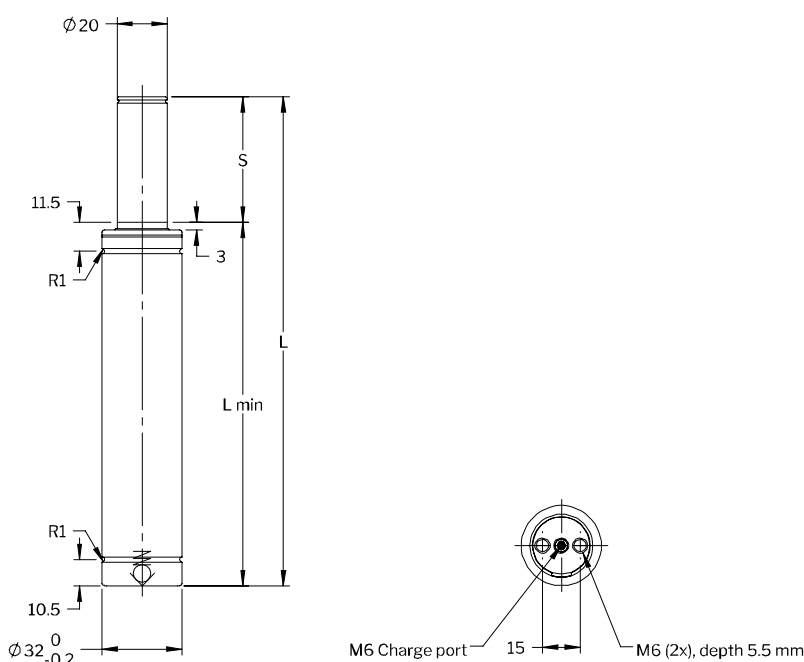


Basic information

For general information see "About gas springs".

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 50-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3025048

Automotive standard: WDX35-62-06007xxDM, 5937649, 5937650, 5937651, 5937652, 5937653, 5937654, 5937655

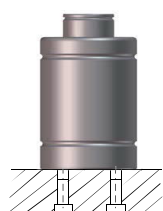


Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 740-006	6	7,400	10,000	1,660	2,200	63	57	0.012	0.20
CU4 740-010	10 ■		10,000		2,250	75	65	0.017	0.24
CU4 740-016	16 ■		11,000		2,475	93	77	0.024	0.28
CU4 740-025	25 ■		12,000		2,700	120	95	0.034	0.33
CU4 740-032	32*		12,000		2,700	140	108	0.042	0.37
CU4 740-040	40*		12,000		2,700	165	125	0.052	0.42
CU4 740-050	50*		12,000		2,700	195	145	0.063	0.48

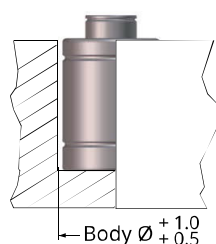
* Should always be attached to the tool using the tapped holes in the bottom or a flange. ** Isothermal end force at full stroke.

■ Recommended stroke length for optimal delivery.

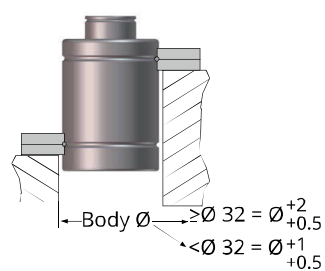
Mounting possibilities



Base mount



Drop-in



**Top mount
FC, FCS**

Recommended mounts



FC-MC-150

 231



FCS-32

 235

Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body. The maximum frequency for the spring is 100 strokes/minute.

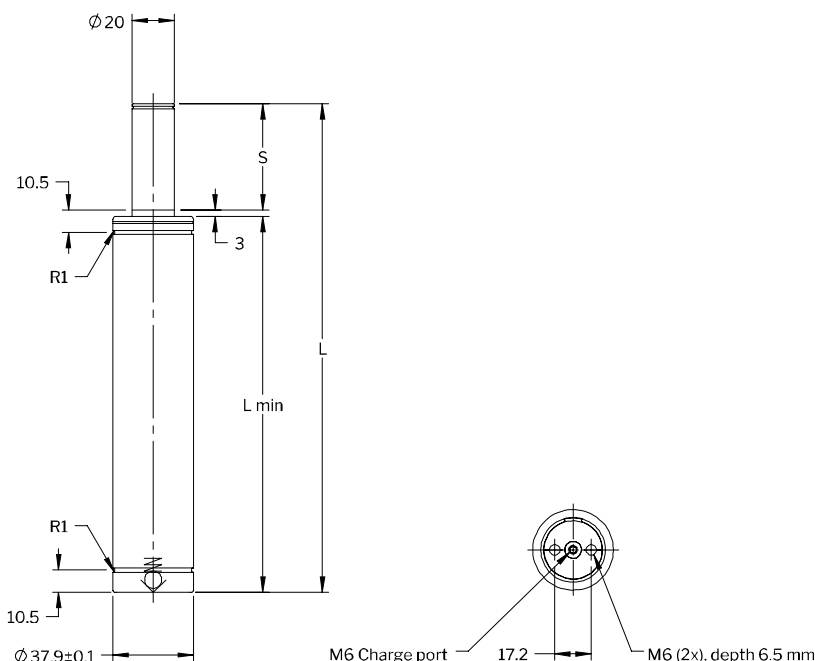
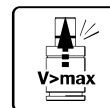
Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring. We also recommend fixing of shorter stroke springs for optimal service life. As an option, the CU4 springs can be delivered with a Side Port plate (SP) for applications where a sideport is needed (e.g., for use in hose systems).

Basic information

For general information see "About gas springs".

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024835

Automotive standard: WDX35-62-06010xxDM, Z000336576, Z000235618, Z000346352, Z000459185, 5937656, 5937657, 5937658, 5937659, 5937660



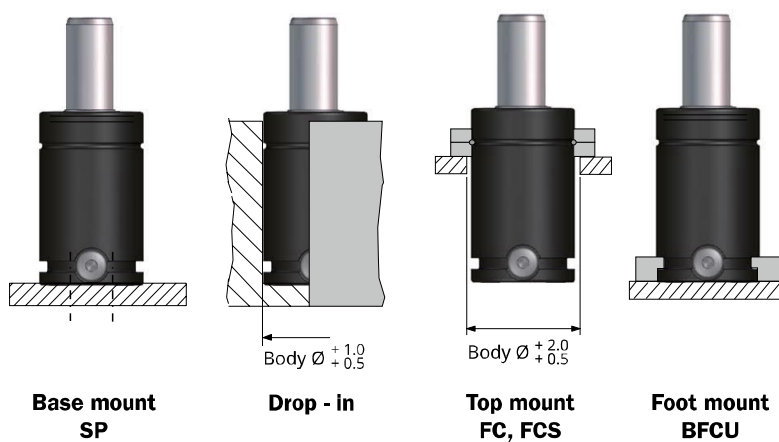
Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 1000-006	6	10,600	16,000	2,400	3,595	61	55	0.014	0.33
CU4 1000-010	10 ■					78	68	0.024	0.38
CU4 1000-016	16 ■					100	84	0.036	0.44
CU4 1000-025	25 ■					135	110	0.056	0.54
CU4 1000-032	32*					167	135	0.074	0.65
CU4 1000-040	40*					195	155	0.092	0.73
CU4 1000-050	50*					230	180	0.110	0.83

* Should always be attached to the tool using the tapped holes in the bottom or a flange.

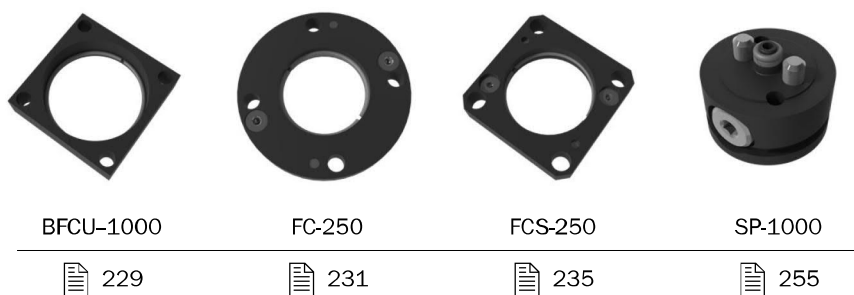
** Isothermal end force at full stroke.

■ Recommended stroke length for optimal delivery.

Mounting possibilities



Recommended mounts



Additional mounts

FCN-250

231

Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body. The maximum frequency for the spring is 100 strokes/minute.

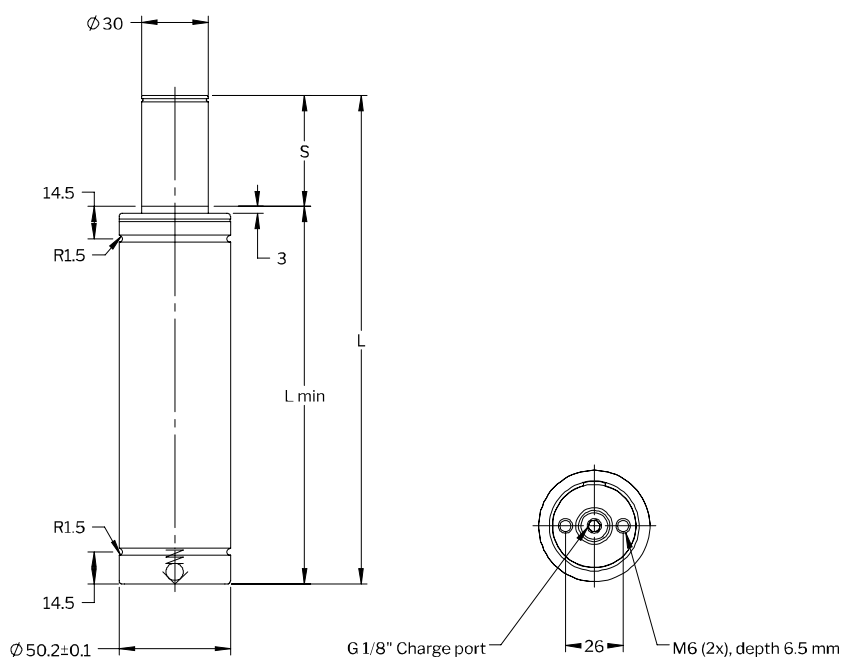
Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring. We also recommend fixing of shorter stroke springs for optimal service life. As an option, the CU4 springs can be delivered with a Side Port plate (SP) for applications where a sideport is needed (e.g., for use in hose systems).

Basic information

For general information see "About gas springs".

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024836

Automotive standard: WDX35-62-07018xxDM, Z000283147, Z000236719, Z000367232, 5937661, 5937662, 5937663, 5937664, 5937665, 5937666, 5937702



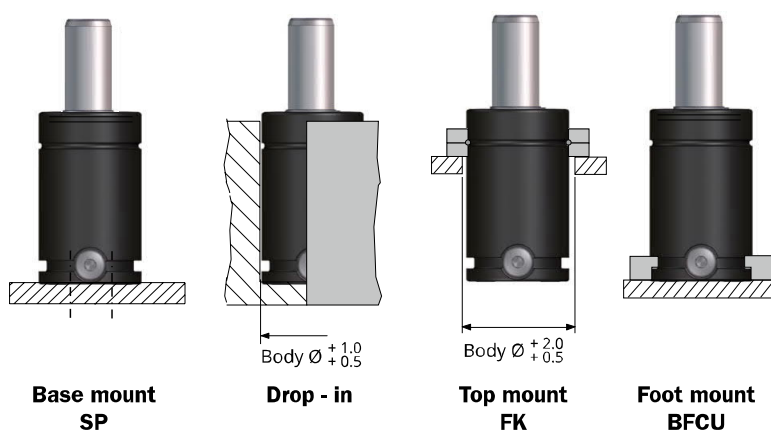
Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 1800-006	6	18,000	24,000	4,050	5,395	66	60	0.030	0.60
CU4 1800-010	10 ■		25,000		5,620	80	70	0.044	0.66
CU4 1800-016	16 ■		25,000		5,620	106	90	0.072	0.79
CU4 1800-025	25 ■		26,000		5,845	135	110	0.100	0.93
CU4 1800-032	32*		26,000		5,845	162	130	0.126	1.06
CU4 1800-040	40*		26,000		5,845	190	150	0.150	1.19
CU4 1800-050	50*		27,000		6,070	220	170	0.179	1.32
CU4 1800-065	65*		28,000		6,294	271	206	0.240	1.52

* Should always be attached to the tool using the tapped holes in the bottom or a flange.

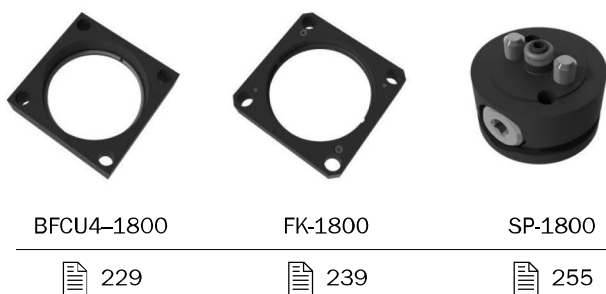
** Isothermal end force at full stroke.

■ Recommended stroke length for optimal delivery.

Mounting possibilities



Recommended mounts



Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body.

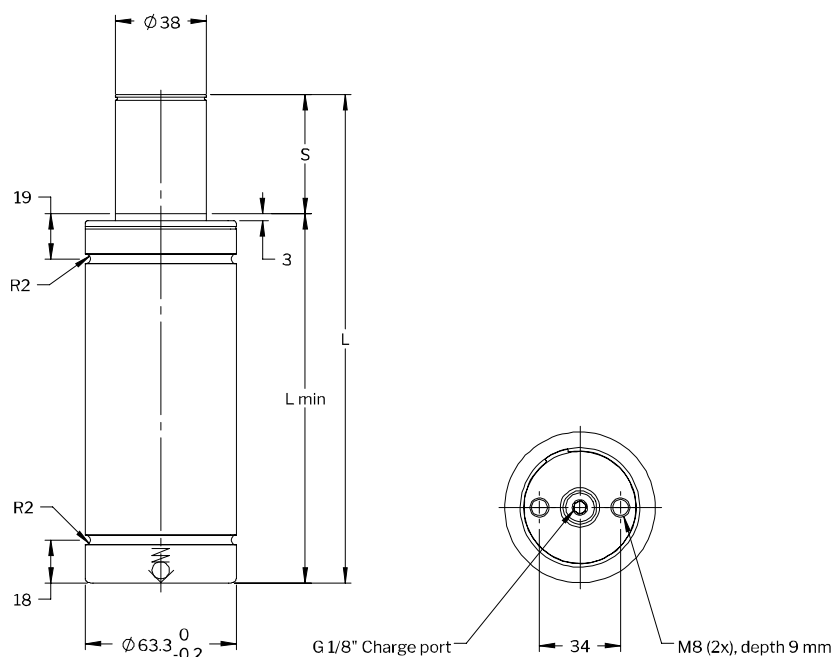
Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring. We also recommend fixing of shorter stroke springs for optimal service life. As an option, this CU4 spring can be delivered with a Side Port plate (SP) for applications where a sideport is needed (e.g., for use in hose systems).

Basic information

For general information see "About gas springs".

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 80-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024837

Automotive standard: WDX35-62-07029xxDM, 5937667, 5937668, 5937669, 5937670, 5937671, 5937672, 5937401



Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 2900-010	10 ■	29,500	40,000	6,630	8,990	85	75	0.08	1.14
CU4 2900-016	16 ■		42,000		8,440	103	87	0.12	1.28
CU4 2900-025	25 ■		45,000		10,120	130	105	0.16	1.49
CU4 2900-032	32*		46,200		10,340	150	118	0.20	1.64
CU4 2900-040	40*		47,200		10,570	175	135	0.24	1.83
CU4 2900-050	50*		45,000		10,120	205	155	0.29	2.06
CU4 2900-065	65*		47,000		10,570	256	191	0.35	2.39

* Should always be attached to the tool using the tapped holes in the bottom or a flange.

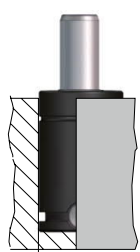
** Isothermal end force at full stroke.

■ Recommended stroke length for optimal delivery.

Mounting possibilities



Base mount
SP



Body $\varnothing$ $+0.5$
 $+1.0$
Drop - in



Body $\varnothing$ $+0.5$
 $+2.0$
Top mount
FCSC, FCS, FC

Recommended mounts



FCSCX-1500

235



XFC-1500

231



SP-2900

255

Additional mounts

FCSCX-1500

236

FCX-1500

235

XFCJ-1500

231

Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body.

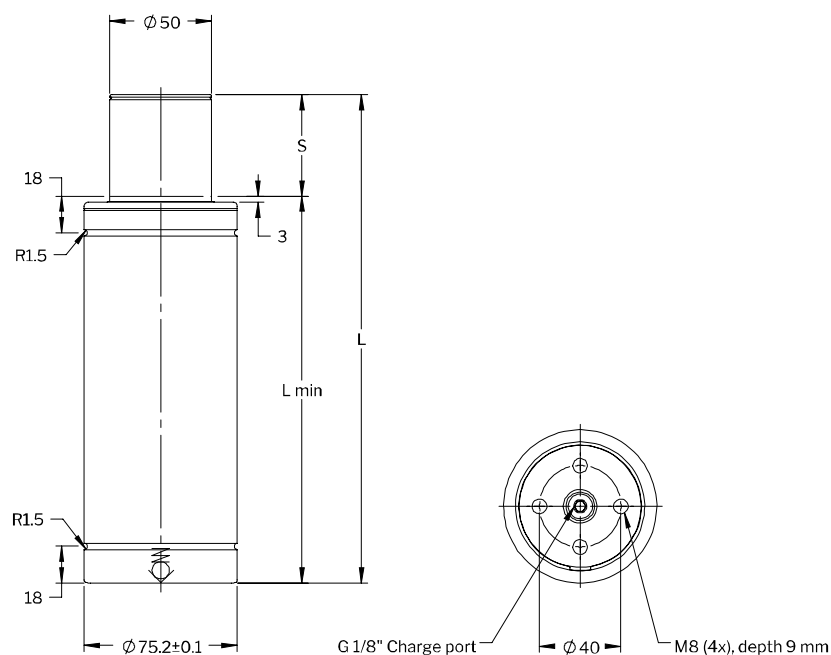
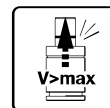
Springs with stroke lengths over 25 mm should always be attached to the tool, using a flange or the tapped holes in the bottom of the spring. We also recommend fixing of shorter stroke springs for optimal service life. As an option, this CU4 spring can be delivered with a Side Port plate (SP) for applications where a sideport is needed (e.g., for use in hose systems).

Basic information

For general information see "About gas springs".

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 80-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024838

Automotive standard: WDX35-62-08047xxDM, Z000332033, Z000283148, Z000294883, Z000459186, 5937673, 5937674, 5937675, 5937676, 5937677, 5937678, 5937700



Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 4700-010	10 ■	47,000	67,000	10,570	15,100	80	70	0.10	1.55
CU4 4700-016	16 ■		66,000		14,800	106	90	0.17	1.79
CU4 4700-025	25 ■		68,000		15,300	135	110	0.24	2.05
CU4 4700-032	32*		67,000		15,100	167	135	0.32	2.34
CU4 4700-040	40*		67,000		15,100	200	160	0.41	2.65
CU4 4700-050	50*		67,000		15,100	240	190	0.52	3.01
CU4 4700-065	65*		71,000		15,200	273	208	0.62	3.12

* Should always be attached to the tool using the tapped holes in the bottom or a flange.

** Isothermal end force at full stroke.

■ Recommended stroke length for optimal delivery.

Mounting possibilities

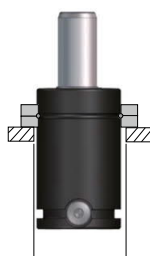


Base mount
SP, SPRM



Body $\varnothing$ $+0.5$
 $+1.0$

Drop - in



Body $\varnothing$ $+0.5$
 $+2.0$

Top mount
FK



Foot mount
BFCU

Recommended mounts



BFP-4700

229



FK-1500

239



SP-4700

255

Additional mounts

SPRM-75

257

Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body. The maximum frequency for the spring is 100 strokes/minute.

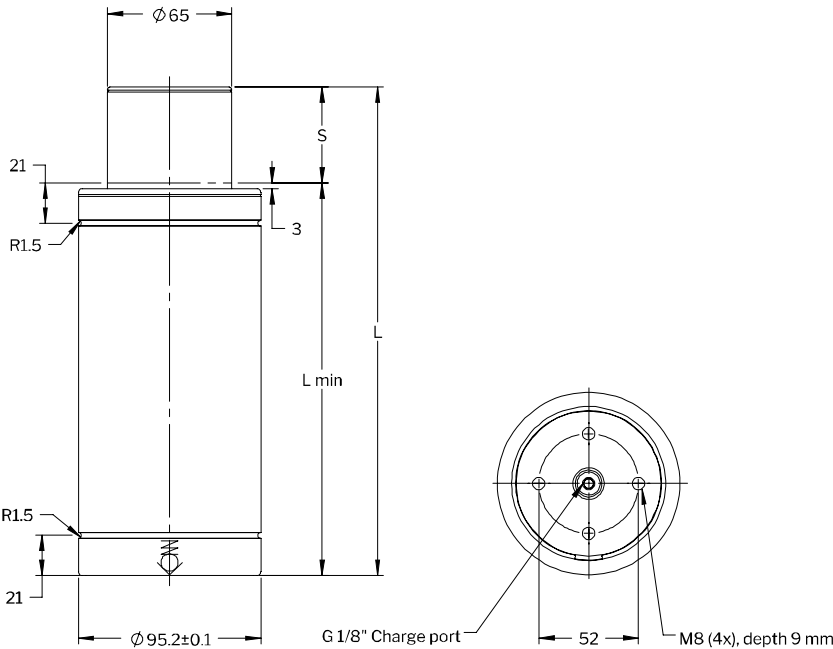
As an option, the CU4 spring can be delivered with a Side Port plate (SP) for applications where a sideport is needed (e.g., for use in hose systems).

Basic information

For general information see “About gas springs”.

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 80-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024839

Automotive standard: WDX35-62-08075xxDM, Z000459187, 5937679, 5937680, 5937681, 5937682, 5937683, 5937684, 5937685



Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ±0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 7500-010	10 ■	75,000	98,500	16,860	22,143	90	80	0.18	2.86
CU4 7500-016	16 ■		100,000		22,480	116	100	0.30	3.22
CU4 7500-025	25 ■		104,000		23,380	145	120	0.41	3.61
CU4 7500-032	32*		102,000		22,930	182	150	0.57	4.14
CU4 7500-040	40*		104,000		23,380	210	170	0.68	4.52
CU4 7500-050	50*		103,000		23,155	255	205	0.87	5.15
CU4 7500-065	65*		111,000		24,953	279	214	1.00	5.23

* Should always be attached to the tool using the tapped holes in the bottom or a flange. ** Isothermal end force at full stroke.
■ Recommended stroke length for optimal delivery.

Mounting possibilities



Base mount
SP, SPRM



Body Ø $+0.5$
 $+1.0$
Drop - in



Body Ø $+0.5$
 $+2.0$
Top mount
FK



Foot mount
BFP

Recommended mounts



BFP-7500

 229



FK-3000

 239



SP-7500

 255

Additional mounts

SPRM-95

 257

Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

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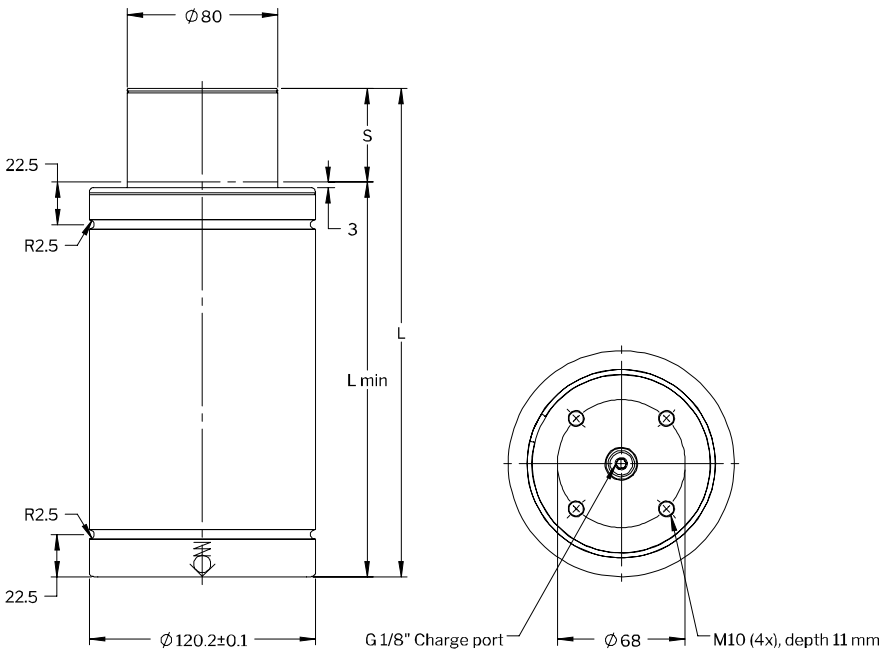
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Basic information

For general information see “About gas springs”.

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 80-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024840

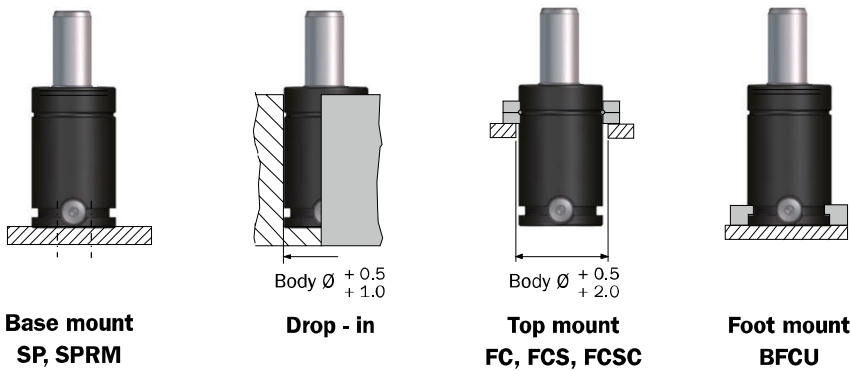
Automotive standard: WDX35-62-09118xxDM, 5937686, 5937687, 5937688, 5937689, 5937690, 5937691, 5937692



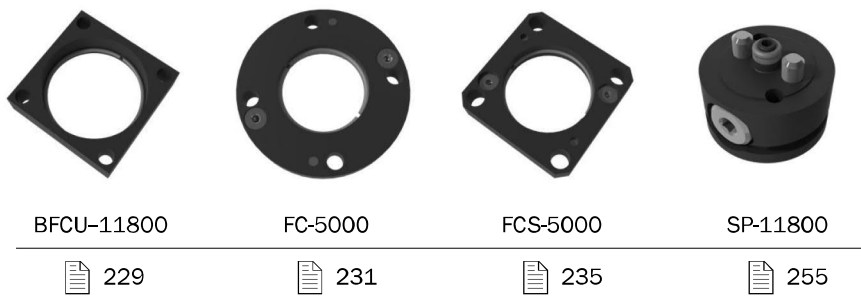
Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ± 0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 11800-010	10 ■	118,000	150,000	26,530	33,700	100	90	0.33	4.95
CU4 11800-016	16 ■		153,000		34,400	126	110	0.50	5.55
CU4 11800-025	25 ■		160,000		36,000	155	130	0.68	6.17
CU4 11800-032	32*		165,000		37,100	187	155	0.88	6.90
CU4 11800-040	40*		160,000		36,000	220	180	1.00	7.65
CU4 11800-050	50*		161,000		36,200	260	210	1.35	8.55
CU4 11800-065	65*		163,000		36,600	320	255	1.90	9.56

* Should always be attached to the tool using the tapped holes in the bottom or a flange. ** Isothermal end force at full stroke.
■ Recommended stroke length for optimal delivery.

Mounting possibilities



Recommended mounts



Additional mounts



Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.

The CU4 gas spring is a very compact bore sealed gas spring with impressive force in a compact body. The maximum frequency for the spring is 100 strokes/minute.

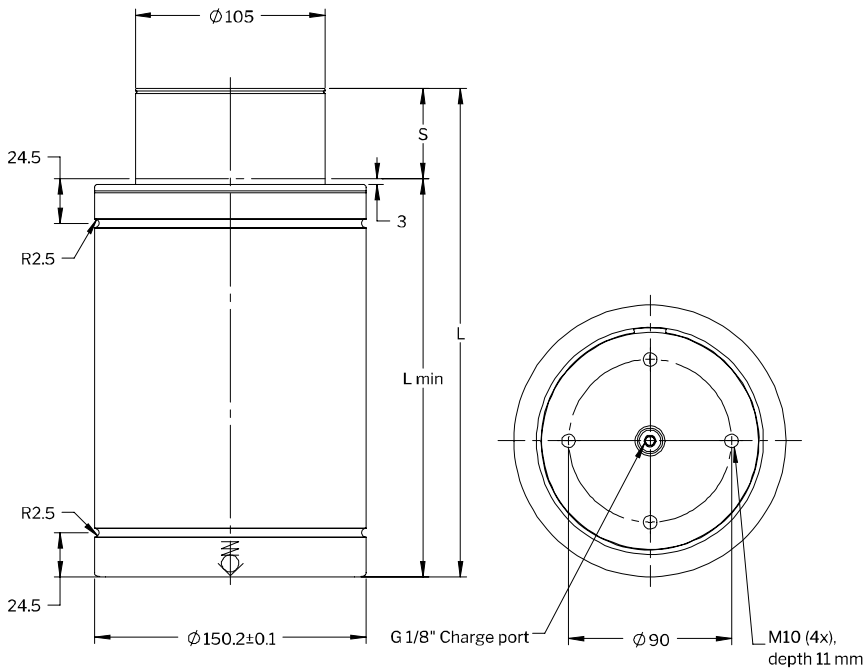
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Basic information

For general information see “About gas springs”.

Pressure medium	Nitrogen
Max. charging pressure (at 20°C)	150 bar
Min. charging pressure (at 20°C)	25 bar
Operating temperature	0 to +80°C
Force increase by temperature	0.3%/°C
Recommended max strokes/min (at 20°C)	~ 80-100
Max piston rod velocity	0.8 m/s
Rod surface	Nitrided
Tube surface	Nitrided
Repair kit	3024841

Automotive standard: WDX35-62-09183xxDM, 5937693, 5937694, 5937695, 5937696, 5937697, 5937698, 5937699

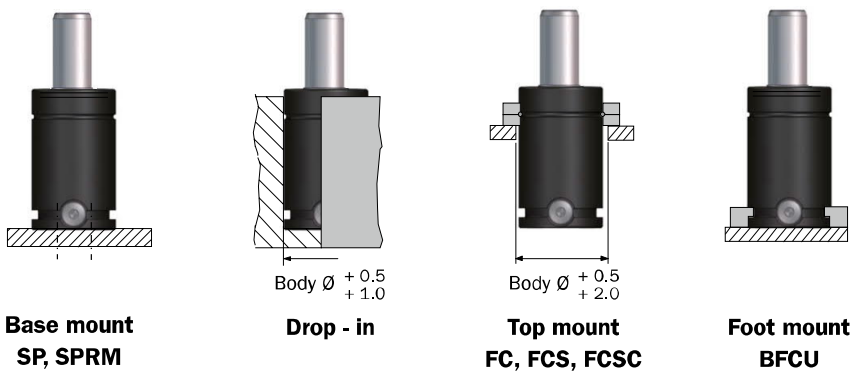


Order No.	S stroke	Force in N at 150 bar/+20°C		Force in lbf at 150 bar/+20°C		L ± 0.25	L min.	Gas vol. (l)	Weight (kg)
		Initial	End force**	Initial	End force**				
CU4 18300-010	10 ■	183,000	227,000	41,140	51,000	110	100	0.56	8.78
CU4 18300-016	16 ■		233,000		52,400	136	120	0.84	9.72
CU4 18300-025	25 ■		244,000		54,900	165	140	1.13	10.71
CU4 18300-032	32*		244,000		54,900	197	165	1.45	11.88
CU4 18300-040	40*		244,000		54,900	235	195	1.86	13.28
CU4 18300-050	50*		248,000		55,800	270	220	2.19	14.50
CU4 18300-065	65*		253,000		56,900	323	258	2.90	16.30

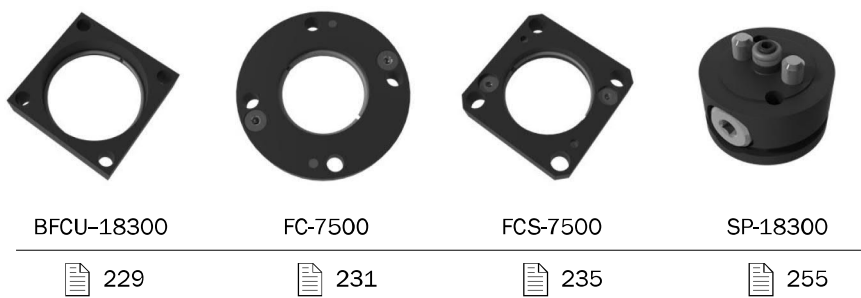
* Should always be attached to the tool using the tapped holes in the bottom or a flange. ** at full stroke.

■ Recommended stroke length for optimal delivery.

Mounting possibilities



Recommended mounts



Additional mounts



Note!

For dimensions on all mount options, refer to “Mounts” in chapter 3.