

Compression Gas Spring



Provides outward pushing or lifting force

Product Description

Compression Gas Springs have the rod out and the load from the application forces the rod in. Typically mounted so they are rod down in the position in which they spend the most time. This allows the oil contained within the Gas Spring to lubricate the rod seals and provide damping.

By varying the design of the piston, seals and bearings and by modifying the quantity and viscosity of the lubricating oil we can provide Gas Springs with different operating characteristics.

Standard Features

316L Stainless Steel or Mild Steel types available both with Hard Chrome Plated rod.

Strokes from 10mm to 1000mm -

Protection Sleeve may be required on longer strokes.

Force range 25N to 7500N.

Valve (V) is standard on all models.

Wide range of End Fittings.

All Spring models can be re-pressurised.

Marine line range in stock.

BCP is standard on Mild Steel (E) and

Polished is standard on Stainless (S).

Ask for the full explanation of each Product Option & Customisation.

Stocked Sizes

We stock stroke sizes from 50mm to 500mm in a range of model sizes ready for despatch - see insert page for the full stock listing.



CUSTOMISATIONS (g)

Code	Description
HT	High Temperature Seals
HS	High Speed Seals
WS	Wiper Seal
FG	Food Grade Components
MED	Magnetically & Medically Safe Components
T	Non Standard Threads
SV	Side Valve
D(#)	Special Damping
V	Defill / Refill Valve (standard)

FINISHES (d)

B	Spray Painted Black
BCP	Black Coated Plastic
PVD	Physical Vapour Deposition
W	Waxoyl
P	Polished

MATERIAL (a)

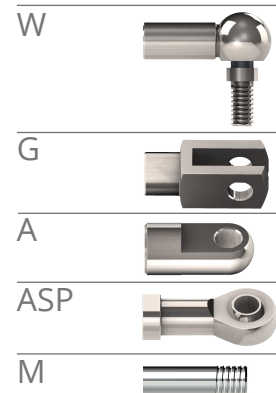
S	316L Stainless Steel
E	Mild Steel

TOLERANCE

(e)	Stroke Length ± 1mm
(f)	Inside Thread Length ± 2mm

CHOOSE STANDARD FITTING STYLES FOR (h) AND (i)

Add component factor of each End Fitting for Extended Centers. Use Inside thread (f) if threads only.



Product range

Rod Diameter (mm)	Body Diameter (mm)	Minimum Stroke Length (mm)	Maximum Stroke Length (mm)	Standard Thread Size		Minimum Force (N)	Maximum Force (N)	Component Factor (mm)
(b)	(c)	(e)	(e)	Rod	Body	(j)	(j)	(k)
6	12	10	200	M5	M5	25	400	29
6	15	10	200	M5	M5	25	400	29
8	18	10	400	M8	M8	50	750	36
10	23	10	600	M8	M8	50	1250	44
10	28	10	1000	M10	M10	50	1250	50
14	28	10	1000	M10	M10	150	2500	50
22	38	10	1000	M14 x 1.5	M14 x 1.5	300	7500	68

Order example

Model	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
G	S	8	18	P	100	245*	V	M8	M8	250N

For each model you can choose any value for Stroke Length and Force between the minimum and maximum values. *Minimum inside thread length (f) = 2 x Stroke (e) + Component Factor (k). When specifying your Spring add on any end fitting lengths (h) & (i) to your Inside Thread Length. This will be your new extended centre value (q).

Compression Gas Spring Stock Sizes

Stainless Steel Stock Range

Order Before Noon UK time for NEXT DAY DELIVERY

Model	Material	Rod Diameter	Body Diameter	Finish	Stroke Length	Inside Thread Length	Customisations	Thread Size		Minimum Force (N)	Maximum Force (N)	Order Code
		(mm)	(mm)					Rod	Body			
		(a)	(b)	(c)	(e)	(f)	(g)	(h)	(i)	(j)	(j)	
G	S	6	15	P	50	130	V	M5	M5	25	400	GS61550130VM5M5 Required Force
G	S	6	15	P	80	190	V	M5	M5	25	400	GS61580190VM5M5 Required Force
G	S	6	15	P	100	230	V	M5	M5	25	400	GS615100230VM5M5 Required Force
G	S	6	15	P	150	330	V	M5	M5	25	400	GS615150330VM5M5 Required Force
G	S	6	15	P	200	430	V	M5	M5	25	400	GS615200430VM5M5 Required Force
G	S	8	18	P	100	245	V	M8	M8	50	750	GS818100245VM8M8 Required Force
G	S	8	18	P	150	345	V	M8	M8	50	750	GS818150345VM8M8 Required Force
G	S	8	18	P	200	445	V	M8	M8	50	750	GS818200445VM8M8 Required Force
G	S	8	18	P	250	545	V	M8	M8	50	750	GS818250545VM8M8 Required Force
G	S	10	23	P	100	245	V	M8	M8	50	1250	GS1023100245VM8M8 Required Force
G	S	10	23	P	150	345	V	M8	M8	50	1250	GS1023150345VM8M8 Required Force
G	S	10	23	P	200	445	V	M8	M8	50	1250	GS1023200445VM8M8 Required Force
G	S	10	23	P	250	545	V	M8	M8	50	1250	GS1023250545VM8M8 Required Force
G	S	10	23	P	300	645	V	M8	M8	50	1250	GS1023300645VM8M8 Required Force
G	S	10	23	P	400	845	V	M8	M8	50	1250	GS1023400845VM8M8 Required Force
G	S	14	28	P	100	250	V	M10	M10	150	2500	GS1428100250VM10M10 Required Force
G	S	14	28	P	150	350	V	M10	M10	150	2500	GS1428150350VM10M10 Required Force
G	S	14	28	P	200	450	V	M10	M10	150	2500	GS1428200450VM10M10 Required Force
G	S	14	28	P	250	550	V	M10	M10	150	2500	GS1428250550VM10M10 Required Force
G	S	14	28	P	300	650	V	M10	M10	150	2500	GS1428300650VM10M10 Required Force
G	S	14	28	P	350	750	V	M10	M10	150	2500	GS1428350750VM10M10 Required Force
G	S	14	28	P	400	850	V	M10	M10	150	2500	GS1428400850VM10M10 Required Force
G	S	14	28	P	500	1050	V	M10	M10	150	2500	GS14285001050VM10M10 Required Force

Carbon Steel Stock Range

Order Before Noon UK time for NEXT DAY DELIVERY

Model	Material	Rod Diameter	Body Diameter	Finish	Stroke Length	Inside Thread Length	Customisations	Thread Size		Minimum Force (N)	Maximum Force (N)	Order Code
		(mm)	(mm)					Rod	Body			
		(a)	(b)	(c)	(e)	(f)	(g)	(h)	(i)	(j)	(j)	
G	E	6	15	B	50	130	V	M5	M5	25	400	GE61550130VM5M5 Required Force
G	E	6	15	B	80	190	V	M5	M5	25	400	GE61580190VM5M5 Required Force
G	E	6	15	B	100	230	V	M5	M5	25	400	GE615100230VM5M5 Required Force
G	E	6	15	B	150	330	V	M5	M5	25	400	GE615150330VM5M5 Required Force
G	E	6	15	B	200	430	V	M5	M5	25	400	GE615200430VM5M5 Required Force
G	E	8	18	B	100	245	V	M8	M8	50	750	GE818100245VM8M8 Required Force
G	E	8	18	B	150	345	V	M8	M8	50	750	GE818150345VM8M8 Required Force
G	E	8	18	B	200	445	V	M8	M8	50	750	GE818200445VM8M8 Required Force
G	E	8	18	B	250	545	V	M8	M8	50	750	GE818250545VM8M8 Required Force
G	E	10	23	B	100	245	V	M8	M8	50	1250	GE1023100245VM8M8 Required Force
G	E	10	23	B	150	345	V	M8	M8	50	1250	GE1023150345VM8M8 Required Force
G	E	10	23	B	200	445	V	M8	M8	50	1250	GE1023200445VM8M8 Required Force
G	E	10	23	B	250	545	V	M8	M8	50	1250	GE1023250545VM8M8 Required Force
G	E	10	23	B	300	645	V	M8	M8	50	1250	GE1023300645VM8M8 Required Force
G	E	10	23	B	400	845	V	M8	M8	50	1250	GE1023400845VM8M8 Required Force
G	E	14	28	B	100	250	V	M10	M10	150	2500	GE1428100250VM10M10 Required Force
G	E	14	28	B	150	350	V	M10	M10	150	2500	GE1428150350VM10M10 Required Force
G	E	14	28	B	200	450	V	M10	M10	150	2500	GE1428200450VM10M10 Required Force
G	E	14	28	B	250	550	V	M10	M10	150	2500	GE1428250550VM10M10 Required Force
G	E	14	28	B	300	650	V	M10	M10	150	2500	GE1428300650VM10M10 Required Force
G	E	14	28	B	350	750	V	M10	M10	150	2500	GE1428350750VM10M10 Required Force
G	E	14	28	B	400	850	V	M10	M10	150	2500	GE1428400850VM10M10 Required Force
G	E	14	28	B	500	1050	V	M10	M10	150	2500	GE14285001050VM10M10 Required Force