

# Gas springs SZ 8063.1.

**STEINEL<sup>®</sup>**  
**NORMALIEN**



## Explanation

Steinel gas springs SZ 8063.1. must be filled using standard nitrogen gas cylinders. Nitrogen is a safe, inert gas.

More information can be found in the operating instructions.

## Advantages of gas springs compared with system springs

- Compact design
- Strong forces in a small space
- Easy to install
- No spring breakage
- No mechanical pre-tension necessary

## Special features of the SZ 8063.1

- Maximum force in minimum space
- Long service life – up to 5 mill. strokes possible
- Maximum piston speed = 0.5 m/sec at max. operating temperature of 80 °C
- Double piston guide
- User can replace wearing parts
- Can be used in multiple-cylinder system\* or alone

## Safety

- Designed and produced according to guidelines for pressurised equipment.
- The piston cannot become loose from the spring on account of the fixed piston stop.

## Consumer notes

- A stroke reserve of 10 % is required. The greater the stroke reserve, the longer the service life.
- Transverse forces: The sturdy structure of the SZ 8063.1 allows a very slight lateral load. Any kind of lateral load shortens the service life of the SZ 8063.1.

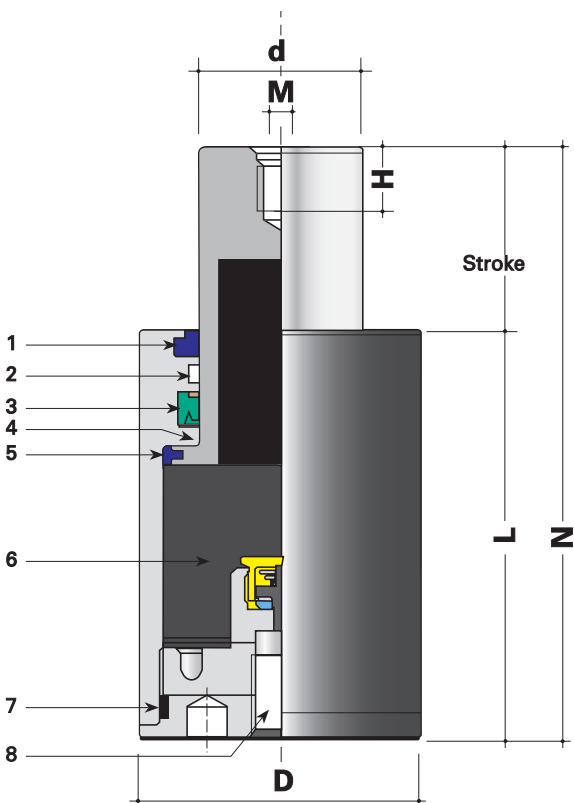
## Order example

Gas spring: **SZ 8063.1.** with a diameter of 50 mm and a stroke of 25 mm.

Add: **050 x 025**

Order number: **SZ 8063.1.050 x 025**

Please order operating instructions if required.

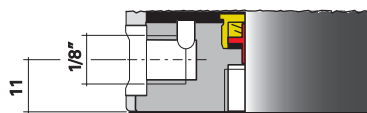


- 1 Stripper
- 2 Piston guide
- 3 Rod seal
- 4 Mechanical stop
- 5 Guide ring
- 6 Stop valve
- 7 O-ring
- 8 Nitrogen inlet

## \* Multiple-cylinder system












Cylinders with diameters from  $D = 38$  mm can be fitted with a sealing plug on the side for the multiple-cylinder system. However, this increases the dimensions "L" and "N" by 20 mm.

When ordering elements for the multiple-cylinder system, please add a "V" to the order number. Example: SZ 8063.1.050 x 025 V



Flange for multiple-cylinder system from  $\text{Ø} 38$

Add  
size to order number

Gas spring											Order no. SZ 8063.1. <input type="checkbox"/> x <input type="checkbox"/>
D	Stroke	L	N	d	M	H				Cylinder attachment	
mm	mm	mm	mm	mm	mm	mm	bar	daN	daN		
25	5*	35	40	14	-	-	195	300	480		025 x 005
	10*	40	50		-	-					025 x 010
	15*	45	60		-	-					025 x 015
	25	55	80		M 6	8					025 x 025
	38	68	106		M 6	8					025 x 038
	50	80	130		M 6	8					025 x 050
	80	110	190		M 6	8					025 x 080
32	5*	35	40	18	-	-	196	500	800		032 x 005
	10	40	50		M 6	8					032 x 010
	15	45	60		M 6	8					032 x 015
	25	55	80		M 6	8					032 x 025
	38	68	106		M 6	8					032 x 038
	50	80	130		M 6	8					032 x 050
	80	110	190		M 6	8					032 x 080
38	5*	35	40	22	-	-	197	750	1200		038 x 005
	10	40	50		M 6	8					038 x 010
	15	45	60		M 6	8					038 x 015
	25	55	80		M 6	8					038 x 025
	38	68	106		M 6	8					038 x 038
	50	80	130		M 6	8					038 x 050
	80	110	190		M 6	8					038 x 080
50	5*	40	45	30	-	-	212	1500	2400		050 x 005
	10	45	55		M 8	12					050 x 010
	15	50	65		M 8	12					050 x 015
	25	60	85		M 8	12					050 x 025
	38	73	111		M 8	12					050 x 038
	50	85	135		M 8	12					050 x 050
	80	120	200		M 8	12					050 x 080
100	135	235		M 8	12					050 x 100	
63	5*	40	45	38	-	-	176	2000	3200		063 x 005
	10	45	55		M 8	12					063 x 010
	15	50	65		M 8	12					063 x 015
	25	60	85		M 8	12					063 x 025
	38	73	111		M 8	12					063 x 038
	50	85	135		M 8	12					063 x 050
	80	120	200		M 8	12					063 x 080
100	135	235		M 8	12					063 x 100	
75	5*	45	50	45	-	-	189	3000	4800		075 x 005
	10	50	60		M 8	12					075 x 010
	15	55	70		M 8	12					075 x 015
	25	65	90		M 8	12					075 x 025
	38	78	116		M 8	12					075 x 038
	50	90	140		M 8	12					075 x 050
	80	125	205		M 8	12					075 x 080
100	145	245		M 8	12					075 x 100	
95	5*	55	60	55	-	-	210	5000	8000		095 x 005
	10	60	70		M 8	12					095 x 010
	15	65	80		M 8	12					095 x 015
	25	75	100		M 8	12					095 x 025
	38	87	125		M 8	12					095 x 038
	50	100	150		M 8	12					095 x 050
	80	130	210		M 8	12					095 x 080
100	150	250		M 8	12					095 x 100	

\* Piston rod without thread