



NORMONT



MOTION CONTROL PRODUCTS FOR INDUSTRIAL APPLICATIONS

www.normont.com

WHERE YOUR NEEDS CONNECT TO OUR SOLUTIONS



NORMONT

INNOVATIVE EXPERIENCED, WITH A GLOBAL REACH

With 30 years of proven experience and stability, Normont has the reputation for excellence and the ability to quickly turn around design engineered solutions that meet any scale requirement. Normont is nimble and responsive; with a personal touch. That's what makes Normont unique in its field.

Today we have an accumulated design, manufacturing and logistical expertise to be a reliable and stable partner who can be counted on to deliver quality products.

With manufacturing, engineering, and logistical support around the globe, we can provide seamless local support from the design engineering, to the on-time delivery of your gas spring.

You can find Normont engineers providing support to industries as diverse as the automotive and their tier suppliers, to bus, truck and train manufacturers — fire truck builders, ambulance manufacturers — companies developing recreational vehicles, etc. The list is long — however one rule applies; No customer is too big or small, each is as important as the other.



Normont Motion Technology
Montréal / Detroit / Mexico City

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HOW TO MEASURE A GAS SPRING



SIX SIMPLE PIECES OF INFORMATION IS ALL WE NEED...

1. EXTENDED LENGTH
2. STROKE LENGTH
3. ROD DIAMETER
4. TUBE DIAMETER
5. END FITTING TYPE (See Page 40)
6. FORCE

PART NUMBERING SYSTEM

PART NUMBER EXAMPLE: NSG1700M200PC1

Prod Type	Length	Size	Force	End Fitting
NSG	1700	M	200	PC1

PRODUCTS TYPE

NSG	STANDARD LIFT GAS SPRING
NSD	DAMPERS
NSSG	STAINLESS STEEL GAS SPRING
NSLG	EXTERNAL LOCKING GAS SPRING
NST	TENSION/PULL GAS SPRINGS

LENGTH

The length is measured in inches

If there are 3 digits in the part # put a period after the 1st digit, this would be the length in inches; 750 is 7.50 inches long

If there are 4 digits in the part # put a period after the 2nd digit, this would be the length in inches; 2050 is 20.50 inches long

AVAILABLE SIZES

Size	Millimeters	Inches
S	6x15	.25 x .591
M	8x18	.315 x .748
Q	8x22	.315 x .866
L	10x22	.394 x .866
R	10x28	.394 x 1.1
x	14x28	.55 x 1.1
Z	16x28	.63 x 1.1
Y	20x40	.787 x 1.57

(Size is Rod diameter x Tube diameter)

END FITTING

For detail option see page 40

FORCE

The force is measured in pounds

PRODUCT NOMENCLATURE

LIFT GAS SPRING

Most commonly found on the hatch back of a car /SUV. A lift gas spring functions in a compressed position. By compressing the rod into the tube, the nitrogen gas within the tube is also being compressed. As the space within the tube is reduced, the gas pressure rises, which leads to the storing of energy. Once actuated, the gas spring then assist with the movement of an object, such as lifting the hatch back door for a car.

DAMPER

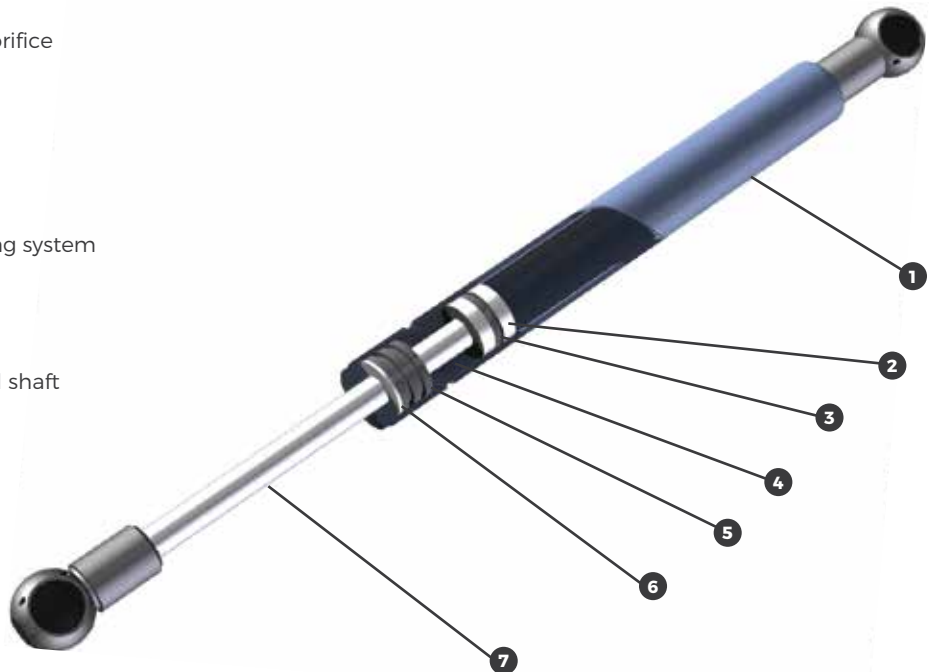
Dampers are designed to control speed & motion, as determined by the quality of hydraulic oil within the tube. Dampening can be set in either extension, compression, or both directions. A damper is commonly used in applications where a cover opens downward and controlled motion is required.

TENSION/PULL/TRACTION

A Tension gas springs works in an opposite manner as a lift gas spring, it functions in extention. The operator "pulls" the rod from the tube, as the rod is "pulled" the nitrogen is compressed causing the gas pressure to increase, storing the energy. Once the operator releases the tension spring, the energy reacts compressing the rod back into the tube.

THE INNER WORKINGS OF AN NSG GAS SPRING

- 1 Thick gauge steel body
- 2 Self cleaning orifice
- 3 Rubber O-ring
- 4 Hydraulic fluid
- 5 Specialty sealing system
- 6 Teflon ring
- 7 Hardened steel shaft





NORMONT

TO THE DESIGN ENGINEER

CYCLE DURABILITY DESIGN

A common concern when designing a gas spring is "cycle durability". Gas springs that are manufactured using a single lip seal system are unable to meet minimal cycle requirements, be it 30,000 to 50,000 cycles. The NSG gas spring is designed and manufactured using proprietary processes and a unique seal system that routinely surpasses 2 million vibration cycle durability requirements. This extraordinary performance can, depending upon the application, allow Normont to offer a 5 year warranty. Standard warranty 2 years.

ASSISTANCE

We recognize that designing a gas spring is not an everyday function, to help in the process we've created a simple design sheet to make your challenge easy. The design sheet is found on page 7 and can be downloaded from our website. The basic information we require to process your design request is the center of gravity, the handle position, the opening angle, and the weight of the door. You can also send us a drawing or a sample and let us determine the correct gas spring size, it's pressure, and the mounting positions.

CUSTOMIZATION/ APPLICATION SPECIFIC GAS SPRINGS

Normont can offer custom gas springs & dampers. We supply gas springs with a length up to 7 feet, a force up 1000 pounds, with a variety of end connections and brackets. Stainless steel & locking gas springs, along with adjustable force gas springs are available. Prefer to work in metric, not a problem, a metric program is available.

COMMON APPLICATIONS



TRANSPORTATION

Bus
Truck
Marine
Aerospace
Emergency Vehicles
Recreational Vehicles



OFF HIGHWAY

Farm Equipment
Riding Mower
Construction Equipment



ELECTRONIC

Bank Machine
Copier
Computer
Commercial Printer



CONSUMER

Tool Box
Tanning Bed
Washer/Dryer
Tonneau Cover
Dumpster

Application Design Form

Company: _____ Date: _____

Name : _____ Position: _____

Address: _____ Telephone: _____

_____ Email: _____

Annual Usage: _____ Due Date: _____

Sample(s) Required: _____ Quantity: _____

Description of the Application (environment, no. of cycles, etc.): _____

Mounting Restrictions: _____

Design Data		X(in.)	Y(in.)
Center of Hinge Point		0.00	0.00
Center of Gravity:			
Door Closed *	A		
Spring Mounting Points:			
To Door (closed)	B		
To Base	C		
Handle Position (closed)*D			
Opening Angle *	E		Degrees
Weight of Door *			lbs.
Handle Force Desired:			
Required to Open Door			lbs.
Required to Close Door			lbs.
Door Dimensions:			
Width			in.
Depth			in.
Thickness			in.
* Required Data			

The diagram illustrates a door mechanism with two gas springs. It shows the hinge points, the center of gravity, and the spring mounting points. Dimensions A, B, C, D, and E are indicated. Force vectors Cx, Cy, Bx, By, Ax, Ay, Dx, and Dy are shown acting on the door and the springs. The X and Y axes are also indicated.

STANDARD LIFT GAS SPRINGS

MINI SERIES



Page 9

6 X 15 SERIES



Page 10-11

8 X 18 SERIES

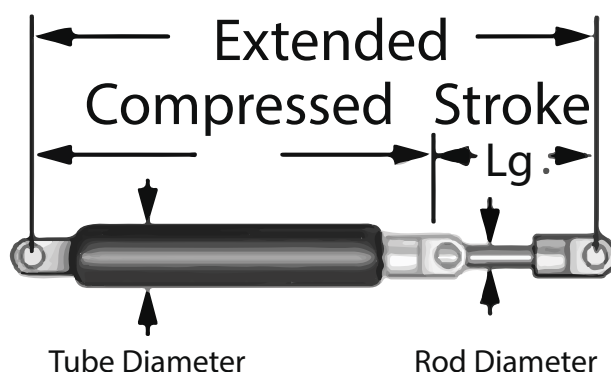


Page 12-14

10 X 22 14 X 28 16 X 28 SERIES

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STANDARD GAS SPRINGS-MINI (4 X 12)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSM435A5E	0.16	0.47	1.2	4.35	5
NSM435A10E	0.16	0.47	1.2	4.35	10
NSM435A15E	0.16	0.47	1.2	4.35	15
NSM435A20E	0.16	0.47	1.2	4.35	20
NSM435A25E	0.16	0.47	1.2	4.35	25
NSM510A5E	0.16	0.47	1.57	5.10	5
NSM510A10E	0.16	0.47	1.57	5.10	10
NSM510A15E	0.16	0.47	1.57	5.10	15
NSM510A20E	0.16	0.47	1.57	5.10	20
NSM510A25E	0.16	0.47	1.57	5.10	25
NSM630A5E	0.16	0.47	2.17	6.30	5
NSM630A10E	0.16	0.47	2.17	6.30	10
NSM630A15E	0.16	0.47	2.17	6.30	15
NSM630A20E	0.16	0.47	2.17	6.30	20
NSM630A25E	0.16	0.47	2.17	6.30	25
NSM710A5E	0.16	0.47	2.56	7.10	5
NSM710A10E	0.16	0.47	2.56	7.10	10
NSM710A15E	0.16	0.47	2.56	7.10	15
NSM710A20E	0.16	0.47	2.56	7.10	20
NSM710A25E	0.16	0.47	2.56	7.10	25
NSM825A5E	0.16	0.47	3.15	8.25	5
NSM825A10E	0.16	0.47	3.15	8.25	10
NSM825A15E	0.16	0.47	3.15	8.25	15
NSM825A20E	0.16	0.47	3.15	8.25	20
NSM825A25E	0.16	0.47	3.15	8.25	25
NSM905A5E	0.16	0.47	3.55	9.05	5
NSM905A10E	0.16	0.47	3.55	9.05	10
NSM905A15E	0.16	0.47	3.55	9.05	15
NSM905A20E	0.16	0.47	3.55	9.05	20
NSM905A25E	0.16	0.47	3.55	9.05	25

STANDARD GAS SPRING (6x15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSG750S20PC1	0.25	0.591	2	7.5	20
NGS750S20MT1	0.25	0.591	2	7.5	20
NSG750S30PC1	0.25	0.591	2	7.5	30
NSG750S40MT1	0.25	0.591	2	7.5	40
NSG750S40PC1	0.25	0.591	2	7.5	40
NSG750S60MT1	0.25	0.591	2	7.5	60
NSG750S60PC1	0.25	0.591	2	7.5	60
NSG750S80MT1	0.25	0.591	2	7.5	80
NSG750S80PC1	0.25	0.591	2	7.5	80
NSG960S20MT1	0.25	0.591	3.15	9.6	20
NSG960S20PC1	0.25	0.591	3.15	9.6	20
NSG960S30PC1	0.25	0.591	3.15	9.6	30
NSG960S40MT1	0.25	0.591	3.15	9.6	40
NSG960S40PC1	0.25	0.591	3.15	9.6	40
NSG960S50PC1	0.25	0.591	3.15	9.6	50
NSG960S60PC1	0.25	0.591	3.15	9.6	60
NSG960S60MT1	0.25	0.591	3.15	9.6	60
NSG960S80PC1	0.25	0.591	3.15	9.6	80
NSG960S80MT1	0.25	0.591	3.15	9.6	80
NSG1000S20PC1	0.25	0.591	3	10	20
NSG1000S20MT1	0.25	0.591	3	10	20
NSG1000S30PC1	0.25	0.591	3	10	30
NSG1000S40PC1	0.25	0.591	3	10	40
NSG1000S40MT1	0.25	0.591	3	10	40
NSG1000S60PC1	0.25	0.591	3	10	60
NSG1000S60MT1	0.25	0.591	3	10	60
NSG1000S80PC1	0.25	0.591	3	10	80
NSG1000S80MT1	0.25	0.591	3	10	80
NGS1200S20PC1	0.25	0.591	3.5	12	20
NGS1200S20MT1	0.25	0.591	3.5	12	20
NGS1200S30PC1	0.25	0.591	3.5	12	30
NGS1200S30MT1	0.25	0.591	3.5	12	30
NGS1200S40PC1	0.25	0.591	3.5	12	40
NGS1200S40MT1	0.25	0.591	3.5	12	40
NGS1200S60PC1	0.25	0.591	3.5	12	60
NGS1200S60MT1	0.25	0.591	3.5	12	60
NGS1200S80PC1	0.25	0.591	3.5	12	80
NGS1200S80MT1	0.25	0.591	3.5	12	80
NSG1450S20PC1	0.25	0.591	5	14.5	20
NSG1450S20MT1	0.25	0.591	5	14.5	20
NSG1450S30PC1	0.25	0.591	5	14.5	30
NSG1450S30MT1	0.25	0.591	5	14.5	30
NSG1450S40PC1	0.25	0.591	5	14.5	40
NSG1450S40MT1	0.25	0.591	5	14.5	40
NSG1450S60PC1	0.25	0.591	5	14.5	60
NSG1450S60MT1	0.25	0.591	5	14.5	60
NSG1450S80PC1	0.25	0.591	5	14.5	80
NSG1450S80MT1	0.25	0.591	5	14.5	80

STANDARD GAS SPRING (6x15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSG1500S20PC1	0.25	0.591	5.5	15	20
NSG1500S20MT1	0.25	0.591	5.5	15	20
NSG1500S30PC1	0.25	0.591	5.5	15	30
NSG1500S30MT1	0.25	0.591	5.5	15	30
NSG1500S40PC1	0.25	0.591	5.5	15	40
NSG1500S40MT1	0.25	0.591	5.5	15	40
NSG1500S60PC1	0.25	0.591	5.5	15	60
NSG1500S60MT1	0.25	0.591	5.5	15	60
NSG1500S80PC1	0.25	0.591	5.5	15	80
NSG1500S80MT1	0.25	0.591	5.5	15	80
NSG1700S30PC1	0.25	0.591	6.75	17	30
NSG1700S40PC1	0.25	0.591	6.75	17	40
NSG1700S60PC1	0.25	0.591	6.75	17	60
NSG1700S80PC1	0.25	0.591	6.75	17	80
NSG1719S20PC1	0.25	0.591	6.18	17.19	20
NSG1719S20MT1	0.25	0.591	6.18	17.19	20
NSG1719S30PC1	0.25	0.591	6.18	17.19	30
NSG1719S30MT1	0.25	0.591	6.18	17.19	30
NSG1719S40PC1	0.25	0.591	6.18	17.19	40
NSG1719S40MT1	0.25	0.591	6.18	17.19	40
NSG1719S60PC1	0.25	0.591	6.18	17.19	60
NSG1719S60MT1	0.25	0.591	6.18	17.19	60
NSG1719S80PC1	0.25	0.591	6.18	17.19	80
NSG1719S80MT1	0.25	0.591	6.18	17.19	80
NSG1968S20PC1	0.25	0.591	8	19.68	20
NSG1968S20MT1	0.25	0.591	8	19.68	20
NSG1968S30PC1	0.25	0.591	8	19.68	30
NSG1968S30MT1	0.25	0.591	8	19.68	30
NSG1968S40PC1	0.25	0.591	8	19.68	40
NSG1968S40MT1	0.25	0.591	8	19.68	40
NSG1968S50PC1	0.25	0.591	8	19.68	50
NSG1968S50MT1	0.25	0.591	8	19.68	50
NSG1968S60PC1	0.25	0.591	8	19.68	60
NSG1968S60MT1	0.25	0.591	8	19.68	60
NSG1968S70PC1	0.25	0.591	8	19.68	70
NSG1968S70MT1	0.25	0.591	8	19.68	70
NSG1968S80PC1	0.25	0.591	8	19.68	80
NSG1968S80MT1	0.25	0.591	8	19.68	80
NSG2000S20PC1	0.25	0.591	8.12	20	20
NSG2000S20MT1	0.25	0.591	8.12	20	20
NSG2000S30PC1	0.25	0.591	8.12	20	30
NSG2000S30MT1	0.25	0.591	8.12	20	30
NSG2000S40PC1	0.25	0.591	8.12	20	40
NSG2000S40MT1	0.25	0.591	8.12	20	40
NSG2000S60PC1	0.25	0.591	8.12	20	60
NSG2000S60MT1	0.25	0.591	8.12	20	60
NSG2000S80PC1	0.25	0.591	8.12	20	80
NSG2000S80MT1	0.25	0.591	8.12	20	80

STANDARD GAS SPRING (8x18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSG750M90MT1	0.315	0.748	2	7.5	90
NSG750M100PC1	0.315	0.748	2	7.5	100
NSG750M100MT1	0.315	0.748	2	7.5	100
NSG750M120PC1	0.315	0.748	2	7.5	120
NSG750M120MT1	0.315	0.748	2	7.5	120
NSG960M20PC1	0.315	0.748	3.25	9.6	20
NSG960M20MT1	0.315	0.748	3.25	9.6	20
NSG960M30PC1	0.315	0.748	3.25	9.6	30
NSG960M30MT1	0.315	0.748	3.25	9.6	30
NSG960M40PC1	0.315	0.748	3.25	9.6	40
NSG960M40MT1	0.315	0.748	3.25	9.6	40
NSG960M60PC1	0.315	0.748	3.25	9.6	60
NSG960M60MT1	0.315	0.748	3.25	9.6	60
NSG960M80PC1	0.315	0.748	3.25	9.6	80
NSG960M80MT1	0.315	0.748	3.25	9.6	80
NSG960M90PC1	0.315	0.748	3.25	9.6	90
NSG960M90MT1	0.315	0.748	3.25	9.6	90
NSG960M100PC1	0.315	0.748	3.25	9.6	100
NSG960M100MT1	0.315	0.748	3.25	9.6	100
NSG960M120PC1	0.315	0.748	3.25	9.6	120
NSG960M120MT1	0.315	0.748	3.25	9.6	120
NSG1000M90PC1	0.315	0.748	3	10	90
NSG1000M90MT1	0.315	0.748	3	10	90
NSG1000M100PC1	0.315	0.748	3	10	100
NSG1000M100MT1	0.315	0.748	3	10	100
NSG1000M120PC1	0.315	0.748	3	10	120
NSG1000M120MT1	0.315	0.748	3	10	120
NSG1200M20MT1	0.315	0.748	3.5	12	20
NSG1200M20PC1	0.315	0.748	3.5	12	20
NSG1200M30MT1	0.315	0.748	3.5	12	30
NSG1200M30PC1	0.315	0.748	3.5	12	30
NSG1200M40MT1	0.315	0.748	3.5	12	40
NSG1200M40PC1	0.315	0.748	3.5	12	40
NSG1200M60MT1	0.315	0.748	3.5	12	60
NSG1200M60PC1	0.315	0.748	3.5	12	60
NSG1200M80PC1	0.315	0.748	3.5	12	80
NSG1200M90PC1	0.315	0.748	3.5	12	90
NSG1200M90MT1	0.315	0.748	3.5	12	90
NSG1200M120PC1	0.315	0.748	3.5	12	120
NSG1200M120MT1	0.315	0.748	3.5	12	120
NSG1221M20PC1	0.315	0.748	4	12.21	20
NSG1221M20MT1	0.315	0.748	4	12.21	20
NSG1221M30PC1	0.315	0.748	4	12.21	30
NSG1221M30MT1	0.315	0.748	4	12.21	30
NSG1221M40PC1	0.315	0.748	4	12.21	40
NSG1221M40MT1	0.315	0.748	4	12.21	40
NSG1221M60PC1	0.315	0.748	4	12.21	60
NSG1221M60MT1	0.315	0.748	4	12.21	60
NSG1221M80PC1	0.315	0.748	4	12.21	80
NSG1221M80MT1	0.315	0.748	4	12.21	80
NSG1221M100PC1	0.315	0.748	4	12.21	100
NSG1221M100MT1	0.315	0.748	4	12.21	100
NSG1221M120PC1	0.315	0.748	4	12.21	120
NSG1221M120MT1	0.315	0.748	4	12.21	120
NSG1221M150PC1	0.315	0.748	4	12.21	150
NSG1221M150MT1	0.315	0.748	4	12.21	150

STANDARD GAS SPRING (8x18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSG1450M20MT1	0.315	0.748	5	14.5	20
NSG1450M20PC1	0.315	0.748	5	14.5	20
NSG1450M30MT1	0.315	0.748	5	14.5	30
NSG1450M30PC1	0.315	0.748	5	14.5	30
NSG1450M40MT1	0.315	0.748	5	14.5	40
NSG1450M40PC1	0.315	0.748	5	14.5	40
NSG1450M60MT1	0.315	0.748	5	14.5	60
NSG1450M60PC1	0.315	0.748	5	14.5	60
NSG1450M75MT1	0.315	0.748	5	14.5	75
NSG1450M75PC1	0.315	0.748	5	14.5	75
NSG1450M90MT1	0.315	0.748	5	14.5	90
NSG1450M90PC1	0.315	0.748	5	14.5	90
NSG1450M120MT1	0.315	0.748	5	14.5	120
NSG1450M120PC1	0.315	0.748	5	14.5	120
NSG1450M150PC1	0.315	0.748	5	14.5	150
NSG1450M150MT1	0.315	0.748	5	14.5	150
NSG1527M20PC1	0.315	0.748	5.5	15.27	20
NSG1527M20MT1	0.315	0.748	5.5	15.27	20
NSG1527M30PC1	0.315	0.748	5.5	15.27	30
NSG1527M30MT1	0.315	0.748	5.5	15.27	30
NSG1527M50PC1	0.315	0.748	5.5	15.27	50
NSG1527M50MT1	0.315	0.748	5.5	15.27	50
NSG1527M75PC1	0.315	0.748	5.5	15.27	75
NSG1527M75MT1	0.315	0.748	5.5	15.27	75
NSG1527M90PC1	0.315	0.748	5.5	15.27	90
NSG1527M90MT1	0.315	0.748	5.5	15.27	90
NSG1527M120PC1	0.315	0.748	5.5	15.27	120
NSG1527M120MT1	0.315	0.748	5.5	15.27	120
NSG1527M150PC1	0.315	0.748	5.5	15.27	150
NSG1527M150MT1	0.315	0.748	5.5	15.27	150
NSG1700M20MT1	0.315	0.748	6	17	20
NSG1700M20PC1	0.315	0.748	6	17	20
NSG1700M30MT1	0.315	0.748	6	17	30
NSG1700M30PC1	0.315	0.748	6	17	30
NSG1700M40PC1	0.315	0.748	6	17	40
NSG1700M40MT1	0.315	0.748	6	17	40
NSG1700M60MT1	0.315	0.748	6	17	60
NSG1700M60PC1	0.315	0.748	6	17	60
NSG1700M75MT1	0.315	0.748	6	17	75
NSG1700M75PC1	0.315	0.748	6	17	75
NSG1700M90MT1	0.315	0.748	6	17	90
NSG1700M90PC1	0.315	0.748	6	17	90
NSG1700M120MT1	0.315	0.748	6	17	120
NSG1700M120PC1	0.315	0.748	6	17	120
NSG1700M150MT1	0.315	0.748	6	17	150
NSG1700M150PC1	0.315	0.748	6	17	150

STANDARD GAS SPRING (8x18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSG1850M20MT1	0.315	0.748	7.25	18.5	20
NSG1850M20PC1	0.315	0.748	7.25	18.5	20
NSG1850M30MT1	0.315	0.748	7.25	18.5	30
NSG1850M30PC1	0.315	0.748	7.25	18.5	30
NSG1850M50MT1	0.315	0.748	7.25	18.5	50
NSG1850M50PC1	0.315	0.748	7.25	18.5	50
NSG1850M60MT1	0.315	0.748	7.25	18.5	60
NSG1850M60PC1	0.315	0.748	7.25	18.5	60
NSG1850M75MT1	0.315	0.748	7.25	18.5	75
NSG1850M75PC1	0.315	0.748	7.25	18.5	75
NSG1850M90MT1	0.315	0.748	7.25	18.5	90
NSG1850M90PC1	0.315	0.748	7.25	18.5	90
NSG1850M120MT1	0.315	0.748	7.25	18.5	120
NSG1850M120PC1	0.315	0.748	7.25	18.5	120
NSG1850M150MT1	0.315	0.748	7.25	18.5	150
NSG1850M150PC1	0.315	0.748	7.25	18.5	150
NSG1963M20MT1	0.315	0.748	7	19.63	20
NSG1963M20PC1	0.315	0.748	7	19.63	20
NSG1963M30MT1	0.315	0.748	7	19.63	30
NSG1963M30PC1	0.315	0.748	7	19.63	30
NSG1963M40MT1	0.315	0.748	7	19.63	40
NSG1963M40PC1	0.315	0.748	7	19.63	40
NSG1963M50MT1	0.315	0.748	7	19.63	50
NSG1963M60MT1	0.315	0.748	7	19.63	60
NSG1963M60PC1	0.315	0.748	7	19.63	60
NSG1963M75MT1	0.315	0.748	7	19.63	75
NSG1963M90MT1	0.315	0.748	7	19.63	90
NSG1963M90PC1	0.315	0.748	7	19.63	90
NSG1963M120MT1	0.315	0.748	7	19.63	120
NSG1963M120PC1	0.315	0.748	7	19.63	120
NSG1963M150MT1	0.315	0.748	7	19.63	150
NSG1963M150PC1	0.315	0.748	7	19.63	150
NSG2000M20PC1	0.315	0.748	8	20	20
NSG2000M20MT1	0.315	0.748	8	20	20
NSG2000M30PC1	0.315	0.748	8	20	30
NSG2000M40MT1	0.315	0.748	8	20	40
NSG2000M40PC1	0.315	0.748	8	20	40
NSG2000M60MT1	0.315	0.748	8	20	60
NSG2000M60PC1	0.315	0.748	8	20	60
NSG2000M90PC1	0.315	0.748	8	20	90
NSG2000M90MT1	0.315	0.748	8	20	90
NSG2000M120PC1	0.315	0.748	8	20	120
NSG2000M120MT1	0.315	0.748	8	20	120
NSG2000M150PC1	0.315	0.748	8	20	150
NSG2000M150MT1	0.315	0.748	8	20	150
NSG2303M30PC1	0.315	0.748	8.5	23.03	30
NSG2303M30MT1	0.315	0.748	8.5	23.03	30
NSG2303M60PC1	0.315	0.748	8.5	23.03	60
NSG2303M60MT1	0.315	0.748	8.5	23.03	60
NSG2303M90PC1	0.315	0.748	8.5	23.03	90
NSG2303M90MT1	0.315	0.748	8.5	23.03	90
NSG2303M120PC1	0.315	0.748	8.5	23.03	120
NSG2303M120MT1	0.315	0.748	8.5	23.03	120
NSG2303M150PC1	0.315	0.748	8.5	23.03	150
NSG2303M150MT1	0.315	0.748	8.5	23.03	150

STANDARD GAS SPRING (10x22)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)	Thread
NSG1825L50MT2	0.394	0.866	7.36	18.25	50	M8
NSG1825L75MT2	0.394	0.866	7.36	18.25	75	M8
NSG1825L100MT2	0.394	0.866	7.36	18.25	100	M8
NSG1825L125MT2	0.394	0.866	7.36	18.25	125	M8
NSG1825L150MT2	0.394	0.866	7.36	18.25	150	M8
NSG1825L175MT2	0.394	0.866	7.36	18.25	175	M8
NSG1825L200MT2	0.394	0.866	7.36	18.25	200	M8
NSG1825L225MT2	0.394	0.866	7.36	18.25	225	M8
NSG1825L250MT2	0.394	0.866	7.36	18.25	250	M8
NSG2050L50MT2	0.394	0.866	7.75	20.5	50	M8
NSG2050L75MT2	0.394	0.866	7.75	20.5	75	M8
NSG2050L100MT2	0.394	0.866	7.75	20.5	100	M8
NSG2050L125MT2	0.394	0.866	7.75	20.5	125	M8
NSG2050L150MT2	0.394	0.866	7.75	20.5	150	M8
NSG2050L175MT2	0.394	0.866	7.75	20.5	175	M8
NSG2050L200MT2	0.394	0.866	7.75	20.5	200	M8
NSG2050L225MT2	0.394	0.866	7.75	20.5	225	M8
NSG2050L250MT2	0.394	0.866	7.75	20.5	250	M8
NSG2122L125MT2	0.394	0.866	8.44	21.22	125	M8
NSG2122L150MT2	0.394	0.866	8.44	21.22	150	M8
NSG2122L200MT2	0.394	0.866	8.44	21.22	200	M8
NSG2122L250MT2	0.394	0.866	8.44	21.22	250	M8
NSG2550L50MT2	0.394	0.866	11	25.5	50	M8
NSG2550L75MT2	0.394	0.866	11	25.5	75	M8
NSG2550L100MT2	0.394	0.866	11	25.5	100	M8
NSG2550L125MT2	0.394	0.866	11	25.5	125	M8
NSG2550L150MT2	0.394	0.866	11	25.5	150	M8
NSG2550L175MT2	0.394	0.866	11	25.5	175	M8
NSG2550L200MT2	0.394	0.866	11	25.5	200	M8
NSG2550L225MT2	0.394	0.866	11	25.5	225	M8
NSG2550L250MT2	0.394	0.866	11	25.5	250	M8
NSG2780L75MT2	0.394	0.866	10	27.8	75	M8
NSG2780L100MT2	0.394	0.866	10	27.8	100	M8
NSG2780L125MT2	0.394	0.866	10	27.8	125	M8
NSG2780L150MT2	0.394	0.866	10	27.8	150	M8
NSG2780L200MT2	0.394	0.866	10	27.8	200	M8
NSG2780L250MT2	0.394	0.866	10	27.8	250	M8
NSG3550L50MT2	0.394	0.866	15	35.5	50	M8
NSG3550L75MT2	0.394	0.866	15	35.5	75	M8
NSG3550L100MT2	0.394	0.866	15	35.5	100	M8
NSG3550L125MT2	0.394	0.866	15	35.5	125	M8
NSG3550L150MT2	0.394	0.866	15	35.5	150	M8
NSG3550L175MT2	0.394	0.866	15	35.5	175	M8
NSG3550L200MT2	0.394	0.866	15	35.5	200	M8
NSG3550L225MT2	0.394	0.866	15	35.5	225	M8
NSG3550L250MT2	0.394	0.866	15	35.5	250	M8

STANDARD GAS SPRING (14x18, 16x28)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)	Thread
NSG2550X250	0.55	1.1	10.6	25.5	250	M10
NSG2550X300	0.55	1.1	10.6	25.5	300	M10
NSG2550X350	0.55	1.1	10.6	25.5	350	M10
NSG3550X250	0.55	1.1	15	35.5	250	M10
NSG3550X300	0.55	1.1	15	35.5	300	M10
NSG3550X350	0.55	1.1	15	35.5	350	M10
NSG4921X250	0.55	1.1	21.65	49.21	250	M10
NSG4921X300	0.55	1.1	21.65	49.21	300	M10
NSG4921X350	0.55	1.1	21.65	49.21	350	M10
NSG5900Z250	0.63	1.1	23.62	59	250	M10
NSG5900Z300	0.63	1.1	23.62	59	300	M10
NSG5900Z350	0.63	1.1	23.62	59	350	M10

DAMPERS

**6 X 15
SERIES**



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**8 X 18
SERIES**



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DAMPER (6X15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Compression Dampers control the speed while the rod is being compressed into the tube

Extension Dampers control the speed while the rod is being pulled out of the tube

Compression Dampers

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	Dampening
NSDC650SL	0.25	0.591	2	6.5	LIGHT
NSDC650SML	0.25	0.591	2	6.5	MED LIGHT
NSDC650SM	0.25	0.591	2	6.5	MEDIUM
NSDC650SMH	0.25	0.591	2	6.5	MED HEAVY
NSDC650SH	0.25	0.591	2	6.5	HEAVY
NSDC865SL	0.25	0.591	3	8.65	LIGHT
NSDC865SML	0.25	0.591	3	8.65	MED LIGHT
NSDC865SM	0.25	0.591	3	8.65	MEDIUM
NSDC865SMH	0.25	0.591	2	8.65	MED HEAVY
NSDC865SH	0.25	0.591	3	8.65	HEAVY
NSDC1110SL	0.25	0.591	4	11.1	LIGHT
NSDC1110SML	0.25	0.591	4	11.1	MED LIGHT
NSDC1110SM	0.25	0.591	4	11.1	MEDIUM
NSDC1110SMH	0.25	0.591	4	11.1	MED HEAVY
NSDC1110SH	0.25	0.591	4	11.1	HEAVY
NSDC1360SL	0.25	0.591	5	13.6	LIGHT
NSDC1360SML	0.25	0.591	5	13.6	MED LIGHT
NSDC1360SM	0.25	0.591	5	13.6	MEDIUM
NSDC1360SMH	0.25	0.591	5	13.6	MED HEAVY
NSDC1360SH	0.25	0.591	5	13.6	HEAVY

Extension Dampers

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	Dampening
NSDE650SL	0.25	0.591	2	6.5	LIGHT
NSDE650SML	0.25	0.591	2	6.5	MED LIGHT
NSDE650SM	0.25	0.591	2	6.5	MEDIUM
NSDE650SMH	0.25	0.591	2	6.5	MED HEAVY
NSDE650SH	0.25	0.591	2	6.5	HEAVY
NSDE865SL	0.25	0.591	3	8.65	LIGHT
NSDE865SML	0.25	0.591	3	8.65	MED LIGHT
NSDE865SM	0.25	0.591	3	8.65	MEDIUM
NSDE865SMH	0.25	0.591	2	8.65	MED HEAVY
NSDE865SH	0.25	0.591	3	8.65	HEAVY
NSDE1110SL	0.25	0.591	4	11.1	LIGHT
NSDE1110SML	0.25	0.591	4	11.1	MED LIGHT
NSDE1110SM	0.25	0.591	4	11.1	MEDIUM
NSDE1110SMH	0.25	0.591	4	11.1	MED HEAVY
NSDE1110SH	0.25	0.591	4	11.1	HEAVY
NSDE1360SL	0.25	0.591	5	13.6	LIGHT
NSDE1360SML	0.25	0.591	5	13.6	MED LIGHT
NSDE1360SM	0.25	0.591	5	13.6	MEDIUM
NSDE1360SMH	0.25	0.591	5	13.6	MED HEAVY
NSDE1360SH	0.25	0.591	5	13.6	HEAVY

DAMPER (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Compression Dampers control the speed while the rod is being compressed into the tube

Extension Dampers control the speed while the rod is being pulled out of the tube

Compression Dampers

Part Number	Prod #	Rod diam.	Tube diam	Stroke Length	Extended Length
NSDC1085ML	0.315	0.748	4	10.85	LIGHT
NSDC1085MML	0.315	0.748	4	10.85	MED LIGHT
NSDC1085MM	0.315	0.748	4	10.85	MEDIUM
NSDC1085MMH	0.315	0.748	4	10.85	MED HEAVY
NSDC1085MH	0.315	0.748	4	10.85	HEAVY
NSDC1310ML	0.315	0.748	5	13.1	LIGHT
NSDC1310MML	0.315	0.748	5	13.1	MED LIGHT
NSDC1310MM	0.315	0.748	5	13.1	MEDIUM
NSDC1310MMH	0.315	0.748	5	13.1	MED HEAVY
NSDC1310MH	0.315	0.748	5	13.1	HEAVY
NSDC1560ML	0.315	0.748	6	15.6	LIGHT
NSDC1560MML	0.315	0.748	6	15.6	MED LIGHT
NSDC1560MM	0.315	0.748	6	15.6	MEDIUM
NSDC1560MMH	0.315	0.748	6	15.6	MED HEAVY
NSDC1560MH	0.315	0.748	6	15.6	HEAVY
NSDC1825ML	0.315	0.748	7	18.25	LIGHT
NSDC1825MML	0.315	0.748	7	18.25	MED LIGHT
NSDC1825MM	0.315	0.748	7	18.25	MEDIUM
NSDC1825MMH	0.315	0.748	7	18.25	MED HEAVY
NSDC1825MH	0.315	0.748	7	18.25	HEAVY

Extension Dampers

Part Number	Prod #	Rod diam.	Tube diam	Stroke Length	Extended Length
NSDE1085ML	0.315	0.748	4	10.85	LIGHT
NSDE1085MML	0.315	0.748	4	10.85	MED LIGHT
NSDE1085MM	0.315	0.748	4	10.85	MEDIUM
NSDE1085MMH	0.315	0.748	4	10.85	MED HEAVY
NSDE1085MH	0.315	0.748	4	10.85	HEAVY
NSDE1310ML	0.315	0.748	5	13.1	LIGHT
NSDE1310MML	0.315	0.748	5	13.1	MED LIGHT
NSDE1310MM	0.315	0.748	5	13.1	MEDIUM
NSDE1310MMH	0.315	0.748	5	13.1	MED HEAVY
NSDE1310MH	0.315	0.748	5	13.1	HEAVY
NSDE1560ML	0.315	0.748	6	15.6	LIGHT
NSDE1560MML	0.315	0.748	6	15.6	MED LIGHT
NSDE1560MM	0.315	0.748	6	15.6	MEDIUM
NSDE1560MMH	0.315	0.748	6	15.6	MED HEAVY
NSDE1560MH	0.315	0.748	6	15.6	HEAVY
NSDE1825ML	0.315	0.748	7	18.25	LIGHT
NSDE1825MML	0.315	0.748	7	18.25	MED LIGHT
NSDE1825MM	0.315	0.748	7	18.25	MEDIUM
NSDE1825MMH	0.315	0.748	7	18.25	MED HEAVY
NSDE1825MH	0.315	0.748	7	18.25	HEAVY

STAINLESS STEEL GAS SPRINGS

**6 X 15
SERIES**



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**8 X 18
SERIES**



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**10 X 22
14 X 28
SERIES**

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STAINLESS STEEL GAS SPRING (6X15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSSG750S20PC1	0.25	0.591	2	7.5	20
NSSG750S20MT1	0.25	0.591	2	7.5	20
NSSG750S40PC1	0.25	0.591	2	7.5	40
NSSG750S40MT1	0.25	0.591	2	7.5	40
NSSG750S60PC1	0.25	0.591	2	7.5	60
NSSG750S60MT1	0.25	0.591	2	7.5	60
NSSG750S80PC1	0.25	0.591	2	7.5	80
NSSG750S80MT1	0.25	0.591	2	7.5	80
NSSG750S100PC1	0.25	0.591	2	7.5	100
NSSG750S100MT1	0.25	0.591	2	7.5	100
NSSG960S20PC1	0.25	0.591	3.15	9.6	20
NSSG960S20MT1	0.25	0.591	3.15	9.6	20
NSSG960S40PC1	0.25	0.591	3.15	9.6	40
NSSG960S40MT1	0.25	0.591	3.15	9.6	40
NSSG960S60PC1	0.25	0.591	3.15	9.6	60
NSSG960S60MT1	0.25	0.591	3.15	9.6	60
NSSG960S80PC1	0.25	0.591	3.15	9.6	80
NSSG960S80MT1	0.25	0.591	3.15	9.6	80
NSSG1000S20PC1	0.25	0.591	3	10	20
NSSG1000S20MT1	0.25	0.591	3	10	20
NSSG1000S40PC1	0.25	0.591	3	10	40
NSSG1000S40MT1	0.25	0.591	3	10	40
NSSG1000S60PC1	0.25	0.591	3	10	60
NSSG1000S60MT1	0.25	0.591	3	10	60
NSSG1000S80PC1	0.25	0.591	3	10	80
NSSG1000S80MT1	0.25	0.591	3	10	80
NSSG1200S20PC1	0.25	0.591	3.5	12	20
NSSG1200S20MT1	0.25	0.591	3.5	12	20
NSSG1200S40PC1	0.25	0.591	3.5	12	40
NSSG1200S40MT1	0.25	0.591	3.5	12	40
NSSG1200S60PC1	0.25	0.591	3.5	12	60
NSSG1200S60MT1	0.25	0.591	3.5	12	60
NSSG1200S80PC1	0.25	0.591	3.5	12	80
NSSG1200S80MT1	0.25	0.591	3.5	12	80
NSSG1450S20PC1	0.25	0.591	5	14.5	20
NSSG1450S20MT1	0.25	0.591	5	14.5	20
NSSG1450S40PC1	0.25	0.591	5	14.5	40
NSSG1450S40MT1	0.25	0.591	5	14.5	40
NSSG1450S60PC1	0.25	0.591	5	14.5	60
NSSG1450S60MT1	0.25	0.591	5	14.5	60
NSSG1450S80PC1	0.25	0.591	5	14.5	80
NSSG1450S80MT1	0.25	0.591	5	14.5	80

STAINLESS STEEL GAS SPRING (6X15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSSG1500S20PC1	0.25	0.591	5.5	15	20
NSSG1500S20MT1	0.25	0.591	5.5	15	20
NSSG1500S40PC1	0.25	0.591	5.5	15	40
NSSG1500S40MT1	0.25	0.591	5.5	15	40
NSSG1500S60PC1	0.25	0.591	5.5	15	60
NSSG1500S60MT1	0.25	0.591	5.5	15	60
NSSG1500S80PC1	0.25	0.591	5.5	15	80
NSSG1500S80MT1	0.25	0.591	5.5	15	80
NSSG1719S20PC1	0.25	0.591	6.18	17.19	20
NSSG1719S20MT1	0.25	0.591	6.18	17.19	20
NSSG1718940PC1	0.25	0.591	6.18	17.19	40
NSSG1719S40MT1	0.25	0.591	6.18	17.19	40
NSSG1719S60PC1	0.25	0.591	6.18	17.19	60
NSSG1719S60MT1	0.25	0.591	6.18	17.19	60
NSSG1719S80PC1	0.25	0.591	6.18	17.19	80
NSSG1719S80MT1	0.25	0.591	6.18	17.19	80
NSSG1968S20PC1	0.25	0.591	8	19.68	20
NSSG1968S20MT1	0.25	0.591	8	19.68	20
NSSG1968S40PC1	0.25	0.591	8	19.68	40
NSSG1968S40MT1	0.25	0.591	8	19.68	40
NSSG1968S60PC1	0.25	0.591	8	19.68	60
NSSG1968S60MT1	0.25	0.591	8	19.68	60
NSSG1968S80PC1	0.25	0.591	8	19.68	80
NSSG1968S80MT1	0.25	0.591	8	19.68	80
NSSG2000S20PC1	0.25	0.591	8.12	20	20
NSSG2000S20MT1	0.25	0.591	8.12	20	20
NSSG2000S30PC1	0.25	0.591	8.12	20	30
NSSG2000S30MT1	0.25	0.591	8.12	20	30
NSSG2000S40PC1	0.25	0.591	8.12	20	40
NSSG2000S40MT1	0.25	0.591	8.12	20	40
NSSG2000S60PC1	0.25	0.591	8.12	20	60
NSSG2000S60MT1	0.25	0.591	8.12	20	60
NSSG2000S80PC1	0.25	0.591	8.12	20	80
NSSG2000S80MT1	0.25	0.591	8.12	20	80

STAINLESS STEEL GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSSG750M90MT1	0.315	0.748	2	7.5	90
NSSG750M100PC1	0.315	0.748	2	7.5	100
NSSG750M100MT1	0.315	0.748	2	7.5	100
NSSG750M120PC1	0.315	0.748	2	7.5	120
NSSG750M120MT1	0.315	0.748	2	7.5	120
NSSG960M20PC1	0.315	0.748	3.25	9.6	20
NSSG960M20MT1	0.315	0.748	3.25	9.6	20
NSSG960M30PC1	0.315	0.748	3.25	9.6	30
NSSG960M30MT1	0.315	0.748	3.25	9.6	30
NSSG960M40PC1	0.315	0.748	3.25	9.6	40
NSSG960M40MT1	0.315	0.748	3.25	9.6	40
NSSG960M60PC1	0.315	0.748	3.25	9.6	60
NSSG960M60MT1	0.315	0.748	3.25	9.6	60
NSSG960M80PC1	0.315	0.748	3.25	9.6	80
NSSG960M80MT1	0.315	0.748	3.25	9.6	80
NSSG960M90PC1	0.315	0.748	3.25	9.6	90
NSSG960M90MT1	0.315	0.748	3.25	9.6	90
NSSG960M100PC1	0.315	0.748	3.25	9.6	100
NSSG960M100MT1	0.315	0.748	3.25	9.6	100
NSSG960M120PC1	0.315	0.748	3.25	9.6	120
NSSG960M120MT1	0.315	0.748	3.25	9.6	120
NSSG1000M90PC1	0.315	0.748	3	10	90
NSSG1000M90MT1	0.315	0.748	3	10	90
NSSG1000M100PC1	0.315	0.748	3	10	100
NSSG1000M100MT1	0.315	0.748	3	10	100
NSSG1000M120PC1	0.315	0.748	3	10	120
NSSG1000M120MT1	0.315	0.748	3	10	120
NSSG1200M20PC1	0.315	0.71	3.5	12	20
NSSG1200M20MT1	0.315	0.71	3.5	12	20
NSSG1200M40PC1	0.315	0.71	3.5	12	40
NSSG1200M40MT1	0.315	0.71	3.5	12	40
NSSG1200M60PC1	0.315	0.71	3.5	12	60
NSSG1200M60MT1	0.315	0.71	3.5	12	60
NSSG1200M80PC1	0.315	0.71	3.5	12	80
NSSG1200M80MT1	0.315	0.71	3.5	12	80
NSSG1200M100PC1	0.315	0.71	3.5	12	100
NSSG1200M100MT1	0.315	0.71	3.5	12	100
NSSG1200M120PC1	0.315	0.71	3.5	12	120
NSSG1200M120MT1	0.315	0.71	3.5	12	120
NSSG1221M20PC1	0.315	0.748	4	12.21	20
NSSG1221M20MT1	0.315	0.748	4	12.21	20
NSSG1221M30PC1	0.315	0.748	4	12.21	30
NSSG1221M30MT1	0.315	0.748	4	12.21	30
NSSG1221M40PC1	0.315	0.748	4	12.21	40
NSSG1221M40MT1	0.315	0.748	4	12.21	40
NSSG1221M60PC1	0.315	0.748	4	12.21	60
NSSG1221M60MT1	0.315	0.748	4	12.21	60
NSSG1221M80PC1	0.315	0.748	4	12.21	80
NSSG1221M80MT1	0.315	0.748	4	12.21	80
NSSG1221M100PC1	0.315	0.748	4	12.21	100
NSSG1221M100MT1	0.315	0.748	4	12.21	100
NSSG1221M120PC1	0.315	0.748	4	12.21	120
NSSG1221M120MT1	0.315	0.748	4	12.21	120
NSSG1221M150PC1	0.315	0.748	4	12.21	150
NSSG1221M150MT1	0.315	0.748	4	12.21	150

STAINLESS STEEL GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSSG1450M20MT1	0.315	0.748	5	14.5	20
NSSG1450M20PC1	0.315	0.748	5	14.5	20
NSSG1450M30MT1	0.315	0.748	5	14.5	30
NSSG1450M30PC1	0.315	0.748	5	14.5	30
NSSG1450M40MT1	0.315	0.748	5	14.5	40
NSSG1450M40PC1	0.315	0.748	5	14.5	40
NSSG1450M60MT1	0.315	0.748	5	14.5	60
NSSG1450M60PC1	0.315	0.748	5	14.5	60
NSSG1450M75MT1	0.315	0.748	5	14.5	75
NSSG1450M75PC1	0.315	0.748	5	14.5	75
NSSG1450M90MT1	0.315	0.748	5	14.5	90
NSSG1450M90PC1	0.315	0.748	5	14.5	90
NSSG1450M120MT1	0.315	0.748	5	14.5	120
NSSG1450M120PC1	0.315	0.748	5	14.5	120
NSSG1450M150PC1	0.315	0.748	5	14.5	150
NSSG1450M150MT1	0.315	0.748	5	14.5	150
NSSG1527M20PC1	0.315	0.71	5	15.27	20
NSSG1527M20MT1	0.315	0.71	5	15.27	20
NSSG1527M40PC1	0.315	0.71	5	15.27	40
NSSG1527M40MT1	0.315	0.71	5	15.27	40
NSSG1527M60PC1	0.315	0.71	5	15.27	60
NSSG1527M60MT1	0.315	0.71	5	15.27	60
NSSG1527M80PC1	0.315	0.71	5	15.27	80
NSSG1527M80MT1	0.315	0.71	5	15.27	80
NSSG1527M100PC1	0.315	0.71	5	15.27	100
NSSG1527M100MT1	0.315	0.71	5	15.27	100
NSSG1527M120PC1	0.315	0.71	5	15.27	120
NSSG1527M120MT1	0.315	0.71	5	15.27	120
NSSG1527M150MT1	0.315	0.71	5	15.27	150
NSSG1527M150PC1	0.315	0.71	5	15.27	150
NSSG1700M20PC1	0.315	0.71	6	17	20
NSSG1700M20MT1	0.315	0.71	6	17	20
NSSG1700M40PC1	0.315	0.71	6	17	40
NSSG1700M40MT1	0.315	0.71	6	17	40
NSSG1700M60PC1	0.315	0.71	6	17	60
NSSG1700M60MT1	0.315	0.71	6	17	60
NSSG1700M80PC1	0.315	0.71	6	17	80
NSSG1700M80MT1	0.315	0.71	6	17	80
NSSG1700M100PC1	0.315	0.71	6	17	100
NSSG1700M100MT1	0.315	0.71	6	17	100
NSSG1700M120PC1	0.315	0.71	6	17	120
NSSG1700M120MT1	0.315	0.71	6	17	120
NSSG1700M150PC1	0.315	0.71	6	17	150
NSSG1700M150MT1	0.315	0.71	6	17	150

STAINLESS STEEL GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSSG1850M20MT1	0.315	0.748	7.25	18.5	20
NSSG1850M20PC1	0.315	0.748	7.25	18.5	20
NSSG1850M30MT1	0.315	0.748	7.25	18.5	30
NSSG1850M30PC1	0.315	0.748	7.25	18.5	30
NSSG1850M50MT1	0.315	0.748	7.25	18.5	50
NSSG1850M50PC1	0.315	0.748	7.25	18.5	50
NSSG1850M60MT1	0.315	0.748	7.25	18.5	60
NSSG1850M60PC1	0.315	0.748	7.25	18.5	60
NSSG1850M75MT1	0.315	0.748	7.25	18.5	75
NSSG1850M75PC1	0.315	0.748	7.25	18.5	75
NSSG1850M90MT1	0.315	0.748	7.25	18.5	90
NSSG1850M90PC1	0.315	0.748	7.25	18.5	90
NSSG1850M120MT1	0.315	0.748	7.25	18.5	120
NSSG1850M120PC1	0.315	0.748	7.25	18.5	120
NSSG1850M150MT1	0.315	0.748	7.25	18.5	150
NSSG1850M150PC1	0.315	0.748	7.25	18.5	150
NSSG1963M20PC1	0.315	0.71	7	19.63	20
NSSG1963M20MT1	0.315	0.71	7	19.63	20
NSSG1963M40PC1	0.315	0.71	7	19.63	40
NSSG1963M40MT1	0.315	0.71	7	19.63	40
NSSG1963M60PC1	0.315	0.71	7	19.63	60
NSSG1963M60MT1	0.315	0.71	7	19.63	60
NSSG1963M80PC1	0.315	0.71	7	19.63	80
NSSG1963M80MT1	0.315	0.71	7	19.63	80
NSSG1963M100PC1	0.315	0.71	7	19.63	100
NSSG1963M100MT1	0.315	0.71	7	19.63	100
NSSG1963M120PC1	0.315	0.71	7	19.63	120
NSSG1963M120MT1	0.315	0.71	7	19.63	120
NSSG1963M150PC1	0.315	0.71	7	19.63	150
NSSG1963M150MT1	0.315	0.71	7	19.63	150
NSG2000M20PC1	0.315	0.748	8	20	20
NSG2000M20MT1	0.315	0.748	8	20	20
NSG2000M30PC1	0.315	0.748	8	20	30
NSG2000M40MT1	0.315	0.748	8	20	40
NSG2000M40PC1	0.315	0.748	8	20	40
NSG2000M60MT1	0.315	0.748	8	20	60
NSG2000M60PC1	0.315	0.748	8	20	60
NSG2000M90PC1	0.315	0.748	8	20	90
NSG2000M90MT1	0.315	0.748	8	20	90
NSG2000M120PC1	0.315	0.748	8	20	120
NSG2000M120MT1	0.315	0.748	8	20	120
NSG2000M150PC1	0.315	0.748	8	20	150
NSG2000M150MT1	0.315	0.748	8	20	150
NSSG2303M30PC1	0.315	0.71	8.5	23.03	30
NSSG2303M30MT1	0.315	0.71	8.5	23.03	30
NSSG2303M60PC1	0.315	0.71	8.5	23.03	60
NSSG2303M60MT1	0.315	0.71	8.5	23.03	60
NSSG2303M90PC1	0.315	0.71	8.5	23.03	90
NSSG2303M90MT1	0.315	0.71	8.5	23.03	90
NSSG2303M120PC1	0.315	0.71	8.5	23.03	120
NSSG2303M120MT1	0.315	0.71	8.5	23.03	120
NSSG2303M150PC1	0.315	0.71	8.5	23.03	150
NSSG2303M150MT1	0.315	0.71	8.5	23.03	150

STAINLESS STEEL GAS SPRING (10X22)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)	Thread
NSSG1825L50MT2	0.394	0.866	7.36	18.25	50	M8
NSSG1825L75MT2	0.394	0.866	7.36	18.25	75	M8
NSSG1825L100MT2	0.394	0.866	7.36	18.25	100	M8
NSSG1825L125MT2	0.394	0.866	7.36	18.25	125	M8
NSSG1825L150MT2	0.394	0.866	7.36	18.25	150	M8
NSSG1825L175MT2	0.394	0.866	7.36	18.25	175	M8
NSSG1825L200MT2	0.394	0.866	7.36	18.25	200	M8
NSSG1825L225MT2	0.394	0.866	7.36	18.25	225	M8
NSSG1825L250MT2	0.394	0.866	7.36	18.25	250	M8
NSSG2050L50MT2	0.394	0.866	7.75	20.5	50	M8
NSSG2050L75MT2	0.394	0.866	7.75	20.5	75	M8
NSSG2050L100MT2	0.394	0.866	7.75	20.5	100	M8
NSSG2050L125MT2	0.394	0.866	7.75	20.5	125	M8
NSSG2050L150MT2	0.394	0.866	7.75	20.5	150	M8
NSSG2050L175MT2	0.394	0.866	7.75	20.5	175	M8
NSSG2050L200MT2	0.394	0.866	7.75	20.5	200	M8
NSSG2050L225MT2	0.394	0.866	7.75	20.5	225	M8
NSSG2050L250MT2	0.394	0.866	7.75	20.5	250	M8
NSSG2122L125MT2	0.394	0.866	8.44	21.22	125	M8
NSSG2122L150MT2	0.394	0.866	8.44	21.22	150	M8
NSSG2122L200MT2	0.394	0.866	8.44	21.22	200	M8
NSSG2122L250MT2	0.394	0.866	8.44	21.22	250	M8
NSSG2550L50MT2	0.394	0.866	11	25.5	50	M8
NSSG2550L75MT2	0.394	0.866	11	25.5	75	M8
NSSG2550L100MT2	0.394	0.866	11	25.5	100	M8
NSSG2550L125MT2	0.394	0.866	11	25.5	125	M8
NSSG2550L150MT2	0.394	0.866	11	25.5	150	M8
NSSG2550L175MT2	0.394	0.866	11	25.5	175	M8
NSSG2550L200MT2	0.394	0.866	11	25.5	200	M8
NSSG2550L225MT2	0.394	0.866	11	25.5	225	M8
NSSG2550L250MT2	0.394	0.866	11	25.5	250	M8
NSSG2780L75MT2	0.394	0.866	10	27.8	75	M8
NSSG2780L100MT2	0.394	0.866	10	27.8	100	M8
NSSG2780L125MT2	0.394	0.866	10	27.8	125	M8
NSSG2780L150MT2	0.394	0.866	10	27.8	150	M8
NSSG2780L200MT2	0.394	0.866	10	27.8	200	M8
NSSG2780L250MT2	0.394	0.866	10	27.8	250	M8
NSSG3550L50MT2	0.394	0.866	15	35.5	50	M8
NSSG3550L75MT2	0.394	0.866	15	35.5	75	M8
NSSG3550L100MT2	0.394	0.866	15	35.5	100	M8
NSSG3550L125MT2	0.394	0.866	15	35.5	125	M8
NSSG3550L150MT2	0.394	0.866	15	35.5	150	M8
NSSG3550L175MT2	0.394	0.866	15	35.5	175	M8
NSSG3550L200MT2	0.394	0.866	15	35.5	200	M8
NSSG3550L225MT2	0.394	0.866	15	35.5	225	M8
NSSG3550L250MT2	0.394	0.866	15	35.5	250	M8

STAINLESS STEEL GAS SPRING (14X28)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)	Thread
NSSG2550X250	0.55	1.1	10.6	25.5	250	M8
NSSG2550X300	0.55	1.1	10.6	25.5	300	M8
NSSG2550X350	0.55	1.1	10.6	25.5	325	M8
NSSG3550X250	0.55	1.1	15	35.5	250	M8
NSSG3550X300	0.55	1.1	15	35.5	300	M8
NSSG3550X350	0.55	1.1	15	35.5	325	M8
NSSG4921X250	0.55	1.1	21.65	49.21	250	M8
NSSG4921X300	0.55	1.1	21.65	49.21	300	M8
NSSG4921X350	0.55	1.1	21.65	49.21	325	M8

EXTERNAL LOCKING GAS SPRINGS

**6 X 15
SERIES**



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**8 X 18
SERIES**



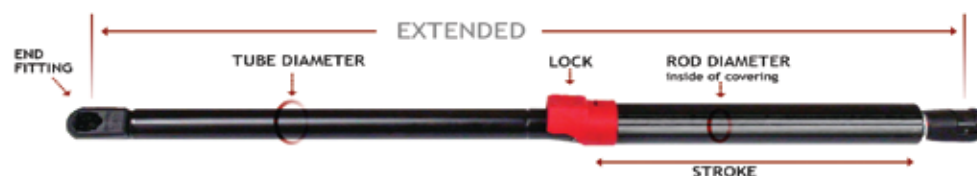
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**10 X 22
SERIES**



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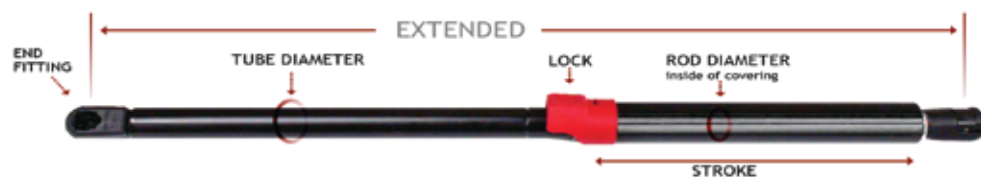
EXTERNAL LOCKING GAS SPRING (6X15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSLG750S20PC1	0.25	0.591	2	7.5	20
NSLG750S20MT1	0.25	0.591	2	7.5	20
NSLG750S40PC1	0.25	0.591	2	7.5	40
NSLG750S40MT1	0.25	0.591	2	7.5	40
NSLG750S60PC1	0.25	0.591	2	7.5	60
NSLG750S60MT1	0.25	0.591	2	7.5	60
NSLG750S80PC1	0.25	0.591	2	7.5	80
NSLG750S80MT1	0.25	0.591	2	7.5	80
NSLG750S100PC1	0.25	0.591	2	7.5	100
NSLG750S100MT1	0.25	0.591	2	7.5	100
NSLG960S20PC1	0.25	0.591	3.15	9.6	20
NSLG960S20MT1	0.25	0.591	3.15	9.6	20
NSLG960S40PC1	0.25	0.591	3.15	9.6	40
NSLG960S40MT1	0.25	0.591	3.15	9.6	40
NSLG960S60PC1	0.25	0.591	3.15	9.6	60
NSLG960S60MT1	0.25	0.591	3.15	9.6	60
NSLG960S80PC1	0.25	0.591	3.15	9.6	80
NSLG960S80MT1	0.25	0.591	3.15	9.6	80
NSLG1000S20PC1	0.25	0.591	3	10	20
NSLG1000S20MT1	0.25	0.591	3	10	20
NSLG1000S40PC1	0.25	0.591	3	10	40
NSLG1000S40MT1	0.25	0.591	3	10	40
NSLG1000S60PC1	0.25	0.591	3	10	60
NSLG1000S60MT1	0.25	0.591	3	10	60
NSLG1000S80PC1	0.25	0.591	3	10	80
NSLG1000S80MT1	0.25	0.591	3	10	80
NSLG1200S20PC1	0.25	0.591	3.5	12	20
NSLG1200S20MT1	0.25	0.591	3.5	12	20
NSLG1200S40PC1	0.25	0.591	3.5	12	40
NSLG1200S40MT1	0.25	0.591	3.5	12	40
NSLG1200S60PC1	0.25	0.591	3.5	12	60
NSLG1200S60MT1	0.25	0.591	3.5	12	60
NSLG1200S80PC1	0.25	0.591	3.5	12	80
NSLG1200S80MT1	0.25	0.591	3.5	12	80
NSLG1500S20PC1	0.25	0.591	5	14.5	20
NSLG1500S20MT1	0.25	0.591	5	14.5	20
NSLG1500S40PC1	0.25	0.591	5	14.5	40
NSLG1500S40MT1	0.25	0.591	5	14.5	40
NSLG1500S60PC1	0.25	0.591	5	14.5	60
NSLG1500S60MT1	0.25	0.591	5	14.5	60
NSLG1500S80PC1	0.25	0.591	5	14.5	80
NSLG1500S80MT1	0.25	0.591	5	14.5	80

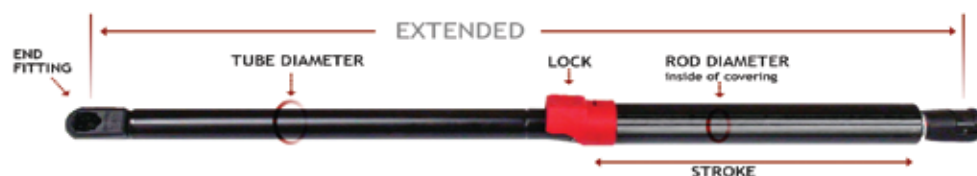
EXTERNAL LOCKING GAS SPRING (6X15)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSLG1550S20PC1	0.25	0.591	5.5	15	20
NSLG1550S20MT1	0.25	0.591	5.5	15	20
NSLG1550S40PC1	0.25	0.591	5.5	15	40
NSLG1550S40MT1	0.25	0.591	5.5	15	40
NSLG1550S60PC1	0.25	0.591	5.5	15	60
NSLG1550S60MT1	0.25	0.591	5.5	15	60
NSLG1550S80PC1	0.25	0.591	5.5	15	80
NSLG1550S80MT1	0.25	0.591	5.5	15	80
NSLG1719S20PC1	0.25	0.591	6.18	17.19	20
NSLG1719S20MT1	0.25	0.591	6.18	17.19	20
NSLG1719S40PC1	0.25	0.591	6.18	17.19	40
NSLG1719S40MT1	0.25	0.591	6.18	17.19	40
NSLG1719S60PC1	0.25	0.591	6.18	17.19	60
NSLG1719S60MT1	0.25	0.591	6.18	17.19	60
NSLG1719S80PC1	0.25	0.591	6.18	17.19	80
NSLG1719S80MT1	0.25	0.591	6.18	17.19	80
NSLG1968S20PC1	0.25	0.591	8	19.68	20
NSLG1968S20MT1	0.25	0.591	8	19.68	20
NSLG1968S40PC1	0.25	0.591	8	19.68	40
NSLG1968S40MT1	0.25	0.591	8	19.68	40
NSLG1968S60PC1	0.25	0.591	8	19.68	60
NSLG1968S60MT1	0.25	0.591	8	19.68	60
NSLG1968S80PC1	0.25	0.591	8	19.68	80
NSLG1968S80MT1	0.25	0.591	8	19.68	80
NSLG2000S20PC1	0.25	0.591	8.12	20	20
NSLG2000S20MT1	0.25	0.591	8.12	20	20
NSLG2000S30PC1	0.25	0.591	8.12	20	30
NSLG2000S30MT1	0.25	0.591	8.12	20	30
NSLG2000S40PC1	0.25	0.591	8.12	20	40
NSLG2000S40MT1	0.25	0.591	8.12	20	40
NSLG2000S60PC1	0.25	0.591	8.12	20	60
NSLG2000S60MT1	0.25	0.591	8.12	20	60
NSLG2000S80PC1	0.25	0.591	8.12	20	80
NSLG2000S80MT1	0.25	0.591	8.12	20	80

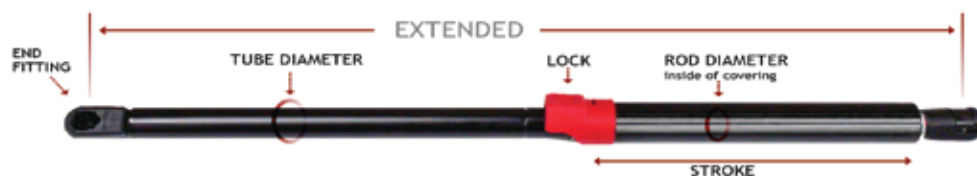
EXTERNAL LOCKING GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSLG750M90MT1	0.315	0.748	2	7.5	90
NSLG750M100PC1	0.315	0.748	2	7.5	100
NSLG750M100MT1	0.315	0.748	2	7.5	100
NSLG750M120PC1	0.315	0.748	2	7.5	120
NSLG750M120MT1	0.315	0.748	2	7.5	120
NSLG960M20PC1	0.315	0.748	3.25	9.6	20
NSLG960M20MT1	0.315	0.748	3.25	9.6	20
NSLG960M30PC1	0.315	0.748	3.25	9.6	30
NSLG960M30MT1	0.315	0.748	3.25	9.6	30
NSLG960M40PC1	0.315	0.748	3.25	9.6	40
NSLG960M40MT1	0.315	0.748	3.25	9.6	40
NSLG960M60PC1	0.315	0.748	3.25	9.6	60
NSLG960M60MT1	0.315	0.748	3.25	9.6	60
NSLG960M80PC1	0.315	0.748	3.25	9.6	80
NSLG960M80MT1	0.315	0.748	3.25	9.6	80
NSLG960M90PC1	0.315	0.748	3.25	9.6	90
NSLG960M90MT1	0.315	0.748	3.25	9.6	90
NSLG960M100PC1	0.315	0.748	3.25	9.6	100
NSLG960M100MT1	0.315	0.748	3.25	9.6	100
NSLG960M120PC1	0.315	0.748	3.25	9.6	120
NSLG960M120MT1	0.315	0.748	3.25	9.6	120
NSLG1000M90PC1	0.315	0.748	3	10	90
NSLG1000M90MT1	0.315	0.748	3	10	90
NSLG1000M100PC1	0.315	0.748	3	10	100
NSLG1000M100MT1	0.315	0.748	3	10	100
NSLG1000M120PC1	0.315	0.748	3	10	120
NSLG1000M120MT1	0.315	0.748	3	10	120
NSLG1200M20MT1	0.315	0.748	3.5	12	20
NSLG1200M20PC1	0.315	0.748	3.5	12	20
NSLG1200M30MT1	0.315	0.748	3.5	12	30
NSLG1200M30PC1	0.315	0.748	3.5	12	30
NSLG1200M40MT1	0.315	0.748	3.5	12	40
NSLG1200M40PC1	0.315	0.748	3.5	12	40
NSLG1200M60MT1	0.315	0.748	3.5	12	60
NSLG1200M60PC1	0.315	0.748	3.5	12	60
NSLG1200M80PC1	0.315	0.748	3.5	12	80
NSLG1200M90PC1	0.315	0.748	3.5	12	90
NSLG1200M90MT1	0.315	0.748	3.5	12	90
NSLG1200M120PC1	0.315	0.748	3.5	12	120
NSLG1200M120MT1	0.315	0.748	3.5	12	120
NSLG1221M20PC1	0.315	0.748	4	12.21	20
NSLG1221M20MT1	0.315	0.748	4	12.21	20
NSLG1221M30PC1	0.315	0.748	4	12.21	30
NSLG1221M30MT1	0.315	0.748	4	12.21	30
NSLG1221M40PC1	0.315	0.748	4	12.21	40
NSLG1221M40MT1	0.315	0.748	4	12.21	40
NSLG1221M60PC1	0.315	0.748	4	12.21	60
NSLG1221M60MT1	0.315	0.748	4	12.21	60
NSLG1221M80PC1	0.315	0.748	4	12.21	80
NSLG1221M80MT1	0.315	0.748	4	12.21	80
NSLG1221M100PC1	0.315	0.748	4	12.21	100
NSLG1221M100MT1	0.315	0.748	4	12.21	100
NSLG1221M120PC1	0.315	0.748	4	12.21	120
NSLG1221M120MT1	0.315	0.748	4	12.21	120
NSLG1221M150PC1	0.315	0.748	4	12.21	150
NSLG1221M150MT1	0.315	0.748	4	12.21	150

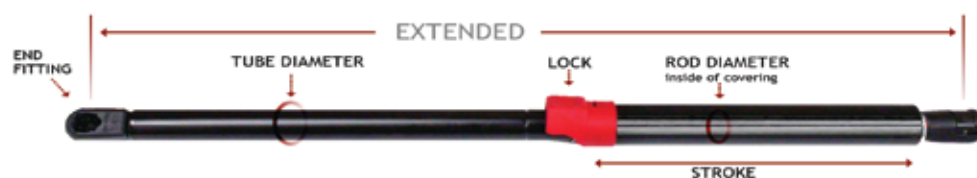
EXTERNAL LOCKING GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSLG1450M20MT1	0.315	0.748	5	14.5	20
NSLG1450M20PC1	0.315	0.748	5	14.5	20
NSLG1450M30MT1	0.315	0.748	5	14.5	30
NSLG1450M30PC1	0.315	0.748	5	14.5	30
NSLG1450M40MT1	0.315	0.748	5	14.5	40
NSLG1450M40PC1	0.315	0.748	5	14.5	40
NSLG1450M60MT1	0.315	0.748	5	14.5	60
NSLG1450M60PC1	0.315	0.748	5	14.5	60
NSLG1450M75MT1	0.315	0.748	5	14.5	75
NSLG1450M75PC1	0.315	0.748	5	14.5	75
NSLG1450M90MT1	0.315	0.748	5	14.5	90
NSLG1450M90PC1	0.315	0.748	5	14.5	90
NSLG1450M120MT1	0.315	0.748	5	14.5	120
NSLG1450M120PC1	0.315	0.748	5	14.5	120
NSLG1450M150PC1	0.315	0.748	5	14.5	150
NSLG1450M150MT1	0.315	0.748	5	14.5	150
NSLG1527M20PC1	0.315	0.748	5.5	15.27	20
NSLG1527M20MT1	0.315	0.748	5.5	15.27	20
NSLG1527M30PC1	0.315	0.748	5.5	15.27	30
NSLG1527M30MT1	0.315	0.748	5.5	15.27	30
NSLG1527M50PC1	0.315	0.748	5.5	15.27	50
NSLG1527M30MT1	0.315	0.748	5.5	15.27	50
NSLG1527M75PC1	0.315	0.748	5.5	15.27	75
NSLG1527M75MT1	0.315	0.748	5.5	15.27	75
NSLG1527M90PC1	0.315	0.748	5.5	15.27	90
NSLG1527M90MT1	0.315	0.748	5.5	15.27	90
NSLG1527M120PC1	0.315	0.748	5.5	15.27	120
NSLG1527M120MT1	0.315	0.748	5.5	15.27	120
NSLG1527M150PC1	0.315	0.748	5.5	15.27	150
NSLG1527M150MT1	0.315	0.748	5.5	15.27	150
NSLG1700M20PC1	0.315	0.71	6	17	20
NSLG1700M20MT1	0.315	0.71	6	17	20
NSLG1700M40PC1	0.315	0.71	6	17	40
NSLG1700M40MT1	0.315	0.71	6	17	40
NSLG1700M60PC1	0.315	0.71	6	17	60
NSLG1700M60MT1	0.315	0.71	6	17	60
NSLG1700M80PC1	0.315	0.71	6	17	80
NSLG1700M80MT1	0.315	0.71	6	17	80
NSLG1700M100PC1	0.315	0.71	6	17	100
NSLG1700M100MT1	0.315	0.71	6	17	100
NSLG1700M120PC1	0.315	0.71	6	17	120
NSLG1700M120MT1	0.315	0.71	6	17	120
NSLG1700M150PC1	0.315	0.71	6	17	150
NSLG1700M150MT1	0.315	0.71	6	17	150

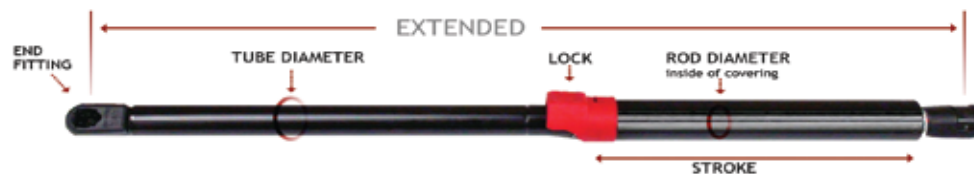
EXTERNAL LOCKING GAS SPRING (8X18)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NSLG1850M20MT1	0.315	0.748	7.25	18.5	20
NSLG1850M20PC1	0.315	0.748	7.25	18.5	20
NSLG1850M30MT1	0.315	0.748	7.25	18.5	30
NSLG1850M30PC1	0.315	0.748	7.25	18.5	30
NSLG1850M50MT1	0.315	0.748	7.25	18.5	50
NSLG1850M50PC1	0.315	0.748	7.25	18.5	50
NSLG1850M60MT1	0.315	0.748	7.25	18.5	60
NSLG1850M60PC1	0.315	0.748	7.25	18.5	60
NSLG1850M75MT1	0.315	0.748	7.25	18.5	75
NSLG1850M75PC1	0.315	0.748	7.25	18.5	75
NSLG1850M90MT1	0.315	0.748	7.25	18.5	90
NSLG1850M90PC1	0.315	0.748	7.25	18.5	90
NSLG1850M120MT1	0.315	0.748	7.25	18.5	120
NSLG1850M120PC1	0.315	0.748	7.25	18.5	120
NSLG1850M150MT1	0.315	0.748	7.25	18.5	150
NSLG1850M150PC1	0.315	0.748	7.25	18.5	150
NSLG1963M20PC1	0.315	0.71	7	19.63	20
NSLG1963M20MT1	0.315	0.71	7	19.63	20
NSLG1963M40PC1	0.315	0.71	7	19.63	40
NSLG1963M40MT1	0.315	0.71	7	19.63	40
NSLG1963M60PC1	0.315	0.71	7	19.63	60
NSLG1963M60MT1	0.315	0.71	7	19.63	60
NSLG1963M80PC1	0.315	0.71	7	19.63	80
NSLG1963M80MT1	0.315	0.71	7	19.63	80
NSLG1963M100PC1	0.315	0.71	7	19.63	100
NSLG1963M100MT1	0.315	0.71	7	19.63	100
NSLG1963M120PC1	0.315	0.71	7	19.63	120
NSLG1963M120MT1	0.315	0.71	7	19.63	120
NSLG1963M150PC1	0.315	0.71	7	19.63	150
NSLG1963M150MT1	0.315	0.71	7	19.63	150
NSLG2000M20PC1	0.315	0.748	8	20	20
NSLG2000M20MT1	0.315	0.748	8	20	20
NSLG2000M30PC1	0.315	0.748	8	20	30
NSLG2000M40MT1	0.315	0.748	8	20	40
NSLG2000M40PC1	0.315	0.748	8	20	40
NSLG2000M60MT1	0.315	0.748	8	20	60
NSLG2000M60PC1	0.315	0.748	8	20	60
NSLG2000M90PC1	0.315	0.748	8	20	90
NSLG2000M90MT1	0.315	0.748	8	20	90
NSLG2000M120PC1	0.315	0.748	8	20	120
NSLG2000M120MT1	0.315	0.748	8	20	120
NSLG2000M150PC1	0.315	0.748	8	20	150
NSLG2000M150MT1	0.315	0.748	8	20	150
NSLG2303M30PC1	0.315	0.71	8.5	23.03	30
NSLG2303M30MT1	0.315	0.71	8.5	23.03	30
NSLG2303M60PC1	0.315	0.71	8.5	23.03	60
NSLG2303M60MT1	0.315	0.71	8.5	23.03	60
NSLG2303M90PC1	0.315	0.71	8.5	23.03	90
NSLG2303M90MT1	0.315	0.71	8.5	23.03	90
NSLG2303M120PC1	0.315	0.71	8.5	23.03	120
NSLG2303M120MT1	0.315	0.71	8.5	23.03	120
NSLG2303M150PC1	0.315	0.71	8.5	23.03	150
NSLG2303M150MT1	0.315	0.71	8.5	23.03	150

EXTERNAL LOCKING GAS SPRING (10X22)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)	Thread
NSLG1825L50MT2	0.394	0.866	7.36	18.25	50	M8
NSLG1825L75MT2	0.394	0.866	7.36	18.25	75	M8
NSLG1825L100MT2	0.394	0.866	7.36	18.25	100	M8
NSLG1825L125MT2	0.394	0.866	7.36	18.25	125	M8
NSLG1825L150MT2	0.394	0.866	7.36	18.25	150	M8
NSLG1825L175MT2	0.394	0.866	7.36	18.25	175	M8
NSLG1825L200MT2	0.394	0.866	7.36	18.25	200	M8
NSLG1825L225MT2	0.394	0.866	7.36	18.25	225	M8
NSLG1825L250MT2	0.394	0.866	7.36	18.25	250	M8
NSLG2050L50MT2	0.394	0.866	7.75	20.5	50	M8
NSLG2050L75MT2	0.394	0.866	7.75	20.5	75	M8
NSLG2050L100MT2	0.394	0.866	7.75	20.5	100	M8
NSLG2050L125MT2	0.394	0.866	7.75	20.5	125	M8
NSLG2050L150MT2	0.394	0.866	7.75	20.5	150	M8
NSLG2050L175MT2	0.394	0.866	7.75	20.5	175	M8
NSLG2050L200MT2	0.394	0.866	7.75	20.5	200	M8
NSLG2050L225MT2	0.394	0.866	7.75	20.5	225	M8
NSLG2050L250MT2	0.394	0.866	7.75	20.5	250	M8
NSLG2122L125MT2	0.394	0.866	8.44	21.22	125	M8
NSLG2122L150MT2	0.394	0.866	8.44	21.22	150	M8
NSLG2122L200MT2	0.394	0.866	8.44	21.22	200	M8
NSLG2122L250MT2	0.394	0.866	8.44	21.22	250	M8
NSLG2550L50MT2	0.394	0.866	11	25.5	50	M8
NSLG2550L75MT2	0.394	0.866	11	25.5	75	M8
NSLG2550L100MT2	0.394	0.866	11	25.5	100	M8
NSLG2550L125MT2	0.394	0.866	11	25.5	125	M8
NSLG2550L150MT2	0.394	0.866	11	25.5	150	M8
NSLG2550L175MT2	0.394	0.866	11	25.5	175	M8
NSLG2550L200MT2	0.394	0.866	11	25.5	200	M8
NSLG2550L225MT2	0.394	0.866	11	25.5	225	M8
NSLG2550L250MT2	0.394	0.866	11	25.5	250	M8
NSLG2780L75MT2	0.394	0.866	10	27.8	75	M8
NSLG2780L100MT2	0.394	0.866	10	27.8	100	M8
NSLG2780L125MT2	0.394	0.866	10	27.8	125	M8
NSLG2780L150MT2	0.394	0.866	10	27.8	150	M8
NSLG2780L200MT2	0.394	0.866	10	27.8	200	M8
NSLG2780L250MT2	0.394	0.866	10	27.8	250	M8
NSLG3550L50MT2	0.394	0.866	15	35.5	50	M8
NSLG3550L75MT2	0.394	0.866	15	35.5	75	M8
NSLG3550L100MT2	0.394	0.866	15	35.5	100	M8
NSLG3550L125MT2	0.394	0.866	15	35.5	125	M8
NSLG3550L150MT2	0.394	0.866	15	35.5	150	M8
NSLG3550L175MT2	0.394	0.866	15	35.5	175	M8
NSLG3550L200MT2	0.394	0.866	15	35.5	200	M8
NSLG3550L225MT2	0.394	0.866	15	35.5	225	M8
NSLG3550L250MT2	0.394	0.866	15	35.5	250	M8

TENSION/PULL/TRACTION GAS SPRINGS

**8 X 22
SERIES**



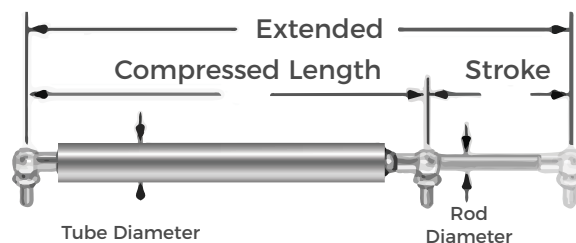
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**10 X 28
SERIES**



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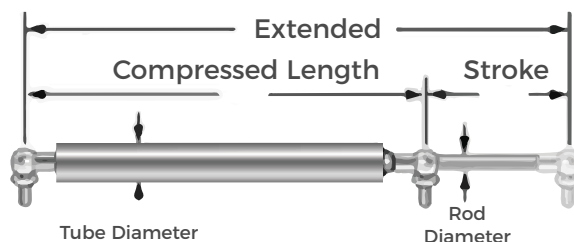
TENSION GAS SPRING (8X22)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NST1693Q20MT2	0.315	0.866	4.02	16.93	20
NST1693Q30MT2	0.315	0.866	4.02	16.93	30
NST1693Q45MT2	0.315	0.866	4.02	16.93	45
NST1693Q55MT2	0.315	0.866	4.02	16.93	55
NST1693Q80MT2	0.315	0.866	4.02	16.93	80
NST1693Q100MT2	0.315	0.866	4.02	16.93	100
NST2260Q20MT2	0.315	0.866	5.91	22.6	20
NST2260Q30MT2	0.315	0.866	5.91	22.6	30
NST2260Q45MT2	0.315	0.866	5.91	22.6	45
NST2260Q55MT2	0.315	0.866	5.91	22.6	55
NST2260Q80MT2	0.315	0.866	5.91	22.6	80
NST2260Q100MT2	0.315	0.866	5.91	22.6	100
NST2850Q20MT2	0.315	0.866	7.87	28.5	20
NST2850Q30MT2	0.315	0.866	7.87	28.5	30
NST2850Q45MT2	0.315	0.866	7.87	28.5	45
NST2850Q55MT2	0.315	0.866	7.87	28.5	55
NST2850Q80MT2	0.315	0.866	7.87	28.5	80
NST2850Q100MT2	0.315	0.866	7.87	28.5	100

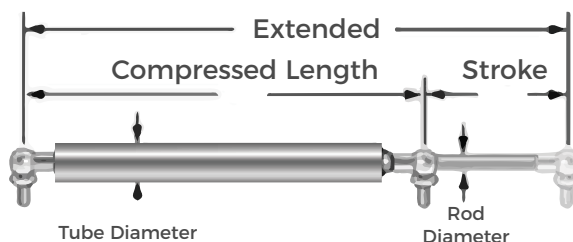
TENSION GAS SPRING (10X28)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NST1004R20MT2	0.394	1.1	1.97	10.04	20
NST1004R30MT2	0.394	1.1	1.97	10.04	30
NST1004R40MT2	0.394	1.1	1.97	10.04	40
NST1004R60MT2	0.394	1.1	1.97	10.04	60
NST1004R80MT2	0.394	1.1	1.97	10.04	80
NST1004R100MT2	0.394	1.1	1.97	10.04	100
NST1004R150MT2	0.394	1.1	1.97	10.04	150
NST1004R200MT2	0.394	1.1	1.97	10.04	200
NST1004R250MT2	0.394	1.1	1.97	10.04	250
NST1201R20MT2	0.394	1.1	2.95	12.01	20
NST1201R30MT2	0.394	1.1	2.95	12.01	30
NST1201R40MT2	0.394	1.1	2.95	12.01	40
NST1201R60MT2	0.394	1.1	2.95	12.01	60
NST1201R80MT2	0.394	1.1	2.95	12.01	80
NST1201R100MT2	0.394	1.1	2.95	12.01	100
NST1201R150MT2	0.394	1.1	2.95	12.01	150
NST1201R200MT2	0.394	1.1	2.95	12.01	200
NST1201R250MT2	0.394	1.1	2.95	12.01	250
NST1398R20MT2	0.394	1.1	3.94	13.98	20
NST1398R30MT2	0.394	1.1	3.94	13.98	30
NST1398R40MT2	0.394	1.1	3.94	13.98	40
NST1398R60MT2	0.394	1.1	3.94	13.98	60
NST1398R80MT2	0.394	1.1	3.94	13.98	80
NST1398R100MT2	0.394	1.1	3.94	13.98	100
NST1398R150MT2	0.394	1.1	3.94	13.98	150
NST1398R200MT2	0.394	1.1	3.94	13.98	200
NST1398R250MT2	0.394	1.1	3.94	13.98	250
NST1594R20MT2	0.394	1.1	4.92	15.94	20
NST1594R30MT2	0.394	1.1	4.92	15.94	30
NST1594R40MT2	0.394	1.1	4.92	15.94	40
NST1594R60MT2	0.394	1.1	4.92	15.94	60
NST1594R80MT2	0.394	1.1	4.92	15.94	80
NST1594R100MT2	0.394	1.1	4.92	15.94	100
NST1594R150MT2	0.394	1.1	4.92	15.94	150
NST1594R200MT2	0.394	1.1	4.92	15.94	200
NST1594R250MT2	0.394	1.1	4.92	15.94	250

TENSION GAS SPRING (10X28)



All lengths are measured with end fittings attached. Fittings are only included when specified in the 'End Fitting' column.

Part Number	Rod diam.	Tube diam	Stroke Length	Extended Length	P1 Force (lbs)
NST1792R20MT2	0.394	1.1	5.91	17.92	20
NST1792R30MT2	0.394	1.1	5.91	17.92	30
NST1792R40MT2	0.394	1.1	5.91	17.92	40
NST1792R60MT2	0.394	1.1	5.91	17.92	60
NST1792R80MT2	0.394	1.1	5.91	17.92	80
NST1792R100MT2	0.394	1.1	5.91	17.92	100
NST1792R150MT2	0.394	1.1	5.91	17.92	150
NST1792R200MT2	0.394	1.1	5.91	17.92	200
NST1792R250MT2	0.394	1.1	5.91	17.92	250
NST2185R20MT2	0.394	1.1	7.87	21.85	20
NST2185R30MT2	0.394	1.1	7.87	21.85	30
NST2185R40MT2	0.394	1.1	7.87	21.85	40
NST2185R60MT2	0.394	1.1	7.87	21.85	60
NST2185R80MT2	0.394	1.1	7.87	21.85	80
NST2185R100MT2	0.394	1.1	7.87	21.85	100
NST2185R150MT2	0.394	1.1	7.87	21.85	150
NST2185R200MT2	0.394	1.1	7.87	21.85	200
NST2185R250MT2	0.394	1.1	7.87	21.85	250
NST2618R20MT2	0.394	1.1	10.04	26.18	20
NST2618R30MT2	0.394	1.1	10.04	26.18	30
NST2618R40MT2	0.394	1.1	10.04	26.18	40
NST2618R60MT2	0.394	1.1	10.04	26.18	60
NST2618R80MT2	0.394	1.1	10.04	26.18	80
NST2618R100MT2	0.394	1.1	10.04	26.18	100
NST2618R150MT2	0.394	1.1	10.04	26.18	150
NST2618R200MT2	0.394	1.1	10.04	26.18	200
NST2618R250MT2	0.394	1.1	10.04	26.18	250
NST3012R20MT2	0.394	1.1	12.01	30.12	20
NST3012R30MT2	0.394	1.1	12.01	30.12	30
NST3012R40MT2	0.394	1.1	12.01	30.12	40
NST3012R60MT2	0.394	1.1	12.01	30.12	60
NST3012R80MT2	0.394	1.1	12.01	30.12	80
NST3012R100MT2	0.394	1.1	12.01	30.12	100
NST3012R150MT2	0.394	1.1	12.01	30.12	150
NST3012R200MT2	0.394	1.1	12.01	30.12	200
NST3012R250MT2	0.394	1.1	12.01	30.12	250

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END FITTINGS



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BRACKETS



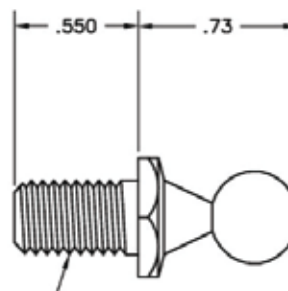
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COMPONENTS-END FITTINGS

For more dimensional information & drawings visit our website; www.normont.com/end-fitting/

Image	Part number	Description	Size	Thread
	PC1	Plastic connector round style	10mm /.39 Ball stud	M6
	PCE	Plastic connector CE Style	10mm /.39 Ball stud	M6
	PC2	Plastic connector round style	10mm /.39 Ball stud	M8
	PC3	Plastic Connector metal clip	10mm /.39 Ball stud	M6
	MT1	Metal ball socket	10mm /.39 Ball stud	M6
	MT1B	Metal ball socket-Black	10mm /.39 Ball stud	M6
	MT1SS	Stainless steel ball socket	10mm /.39 Ball stud	M6
	MT2	Metal ball socket	13mm Ball stud	M8
	MT2B	Metal ball socket-Black	13mm Ball stud	M6
	MT2SS	Stainless steel ball socket	13mm Ball stud	M8
	MT3	Metal ball socket	10mm / .39 Ball stud	M6
	FB1	Zinc die, through hole	.510-.515 Hole dia	M6
	FB2	Zinc die, through hole	.405-.410 Hole dia	M6
	FB3	Zinc die, through hole	.325-.330 Hole dia	M6
	FB4	Zinc die, through hole	.260-.265 Hole dia	M6
	FB5	Zinc die, through hole	.205-.210 Hole dia	M6
	NSC90	Spring slip for MT1 Series		
	NSC100	Spring clip for MT2 Series		
	EY1	Clevis End Fittings		

COMPONENTS-BALL STUDS



For more dimensional information & drawings visit our website; www.normont.com/ball-stud/

Image	Ball stud diameter	Thread	Material
NBS01-01	0.39	5/16-18 x .56	Zinc plated Steel
NBS01-02	0.39	5/16-18 x .75	Zinc plated Steel
NBS01-03	0.39	5/16-18 x 1.00	Zinc plated Steel
NBS01-04	10mm	M8 x 15mm	Zinc plated Steel
NBS01-01SS	0.39	5/16-18 x .56	Stainless Steel
NBS02-01	0.51	5/16-18 x .625	Zinc plated steel
NBS02-02	0.51	5/16-18 x .75	Zinc plated Steel
NBS02-03	0.51	5/16-18 x 1.00	Zinc plated Steel
NBS02-04	13mm	M8 x 15mm	Zinc plated Steel
NBS02-01SS	0.51	5/16-18 x .625	Stainless Steel

COMPONENTS-BRACKETS

For more dimensional information & drawings visit our website; www.normont.com/bracket/

Image	Part number	Ball Stud Diameter	Description	Material
	NBF01-01	0.39	2.25 W / 1.44 H / .078Thick	Zinc Plated Steel
	NBF01-01B	0.39	2.25 W / 1.44 H / .078Thick, Black Powder coated	Zinc Plated Steel
	NBF01-01SS	0.39	2.25 W / 1.44 H / .078Thick,	Stainless Steel
	NBF01-02	0.51	2.25 W / 1.44 H / .078Thick	Zinc Plated Steel
	NBF01-02B	0.51	2.25 W / 1.44 H / .078Thick, Black Powder coated	Zinc Plated Steel
	NBF01-02SS	0.51	2.25 W / 1.44 H / .078Thick,	Stainless Steel
	NBR01-02	0.39	90 DEG BRACKET for <90 LBS	Zinc Plated Steel
	NBR01-02B	0.39	90 DEG BRACKET for <90 LBS Black Powder Coated	Zinc Plated Steel
	NBR01-02SS	0.39	90 DEG BRACKET for <90 LBS	Stainless Steel
	NBR01-02R	0.39	Reverse 90 DEG BRACKET for <90 LBS	Zinc Plated Steel

COMPONENTS-BRACKETS

Image	Part number	Ball Stud Diameter	Description	Material
	NBR01-02RB	0.39	Reverse 90 DEG BRACKET for <90 LBS Black Powder Coated	Zinc Plated Steel
	NBR02-01	0.39	90 DEG BRACKET FOR <90 LBS	Zinc Plated
	NBR02-01B	0.39	90 DEG BRACKET FOR <90 LBS	Zinc Plated
	NBR02-01SS	0.51	90 DEG BRACKET FOR <90 LBS	Stainless Steel
	NBR02-01R	0.39	Reverse 90 DEG BRACKET FOR <90 LBS	Zinc Plated
	NBR02-01RB	0.39	Reverse 90 DEG BRACKET FOR <90 LBS Black Powder coated	Zinc Plated
	NBR02-02	0.51	90 DEG BRACKET FOR <90 LBS	Zinc Plated
	NBR02-02B	0.51	90 DEG BRACKET FOR <90 LBS	Zinc Plated
	NBR02-02SS	0.51	90 DEG BRACKET FOR <90 LBS	Stainless Steel
	NBR02-02R	0.51	Reverse 90 DEG BRACKET FOR <90 LBS	Zinc Plated

COMPONENTS-BRACKETS

Image	Part number	Ball Stud Diameter	Description	Material
	NBR02-02RB	0.51	Reverse 90 DEG BRACKET FOR <90 LBS Black Powder coated	Zinc Plated
	NBR03-01	0.39	90 DEG BRACKET <90 LBS	Zinc Plated
	NBR03-01B	0.39	90 DEG BRACKET <90 LBS Black Powder Coated	Zinc Plated
	NBR03-01SS	0.39	90 DEG BRACKET <90 LBS	Stainless Steel
	NBR03-02	0.39	Reverse 90 DEG BRACKET <90 LBS	Zinc Plated

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TERMS & CONDITIONS

MINIMUM ORDER

It has been Normont's policy that all orders and customers are important to us. Therefore there is no minimum order requirement. For orders below \$50.00, there is a \$10.00 handling fee.

TERMS

Net 30 days upon credit approval. We accept Visa and MasterCard.

FREIGHT

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When our engineers have been involved in the design process, there will be no charge for standard product prototypes. Non-standard or custom prototypes will be reviewed on an individual basis.

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A written authorization (RMA) is required before returning goods. This will ensure that the appropriate credit documents are issued. All requests for returns should be in writing and should indicate the reason for the return.

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Customer will assume all responsibility and make payment for all work in progress and completed inventory at the time of notification of cancellation.

SPECIFICATIONS

Normont reserves the right to revise the specifications for products in this catalogue, without prior notice.

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Notes

50 gas springs & dampers



ABOUT NORMONT

Normont has proudly grown into a leading manufacturer of industrial, automotive, and aerospace gas spring & hydraulic dampers. Our World Class team of Professional Engineers will analyze the specific requirements of each new request whether it be for a customized gas spring, damper, or tension gas spring and develop an innovative quality and cost effective solution for that.



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