



>>  
**QUESTIONS  
AND  
ANSWERS**



**HERVIN**  
**GAS SPRINGS**



### **NGK SPARK PLUGS SA (PTY) LTD.**

has added another  
**exclusively distributed  
OE quality product:  
HERVIN GAS SPRINGS,**  
to our range of products.

This range of gas springs  
complements the KYB Shock  
Absorber range and enables  
us to be a one-stop supplier to  
our customers.

There are two types of Hervin Gas Springs:

**1. OE manufacturers' specification** –  
a vehicle-specific application with a  
specific Newton pressure, fitted standard  
with end fittings.

**2. Universal application** – sold separately,  
with only 50N of nitrogen gas pressure and  
without end fittings. The unit is compatible  
with existing gas filling machines. It is filled  
with nitrogen, according to a specific need,  
after purchase. There are 6 different end  
fittings (or connectors) with a 100% match  
to the current range in South Africa.



**>> Q: Why should you buy a Hervin Gas Spring and not another make of gas spring?**

We at NGK SPARK PLUGS SA (Pty) Ltd. are proud to put our name and reputation behind this product. We continue to offer **the best quality at the best price** to the market. In addition, we have a technical hotline and **a competent sales team** to support all technical needs. Backed by a full 24-month replacement warranty.

**>> Q: What is the warranty of Hervin Gas Springs?**

We are confident that with the correct application and installation, the Hervin Gas Spring will last at least one year from the date of purchase. Backed by a full 24-month replacement warranty.

**>> Q: Is there a specific way a gas spring must be fitted?**

The cylinder should be placed at the top, and the shaft should face downwards to allow for proper damping and lubrication of the shaft and seal.

**>> Q: Can I modify a gas spring?**

Under no circumstances! All modification or machining is associated with significant risks because the gas spring is a pressure vessel and can affect the built-in safety functions.



### >> **Q: Why do gas springs fail?**

The seals in the gas springs are a wear-and-tear item. Due to heat, dust and contaminants, the seals progressively wear to the extent that the nitrogen gas starts to leak and can no longer support its designed loads.

### >> **Q: Can I replace one gas spring, or must I change them in pairs?**

It's always advisable to replace in pairs to prevent twisting and structural damage.

### >> **Q: If my application has no gas spring support, can I add it?**

Yes, you can – Hervin supplies an extensive range of universal gas springs and end fittings for many applications.

### >> **Q: How do I match my vehicle gas spring with a Hervin gas spring?**

If you supply your vehicle details, the dimensions of the OE number on the existing gas spring can be matched to one of Hervin's universal or vehicle-specific gas springs.

### >> **Q: Can I fill my universal gas spring more than is recommended?**

No, the gas spring seals are calibrated to withstand only a certain amount of pressure.



**>> Q: Can I release the gas pressure to make the spring softer?**

No, gas springs are pressure vessels; never try to open or deflate them.

**>> Q: Can I lubricate the shaft?**

Do not lubricate the piston rod with grease or oil, and do not expose the gas spring to oils or solvents. This will potentially damage the seals.

**>> Q: Can I use my old end fittings with the new gas spring?**

It is advisable to change both end fittings and gas springs with new, non-worn parts.

**>> Q: How do I determine the correct pressure?**

To determine the correct pressure for a universal gas spring, best practice is as follows:

- The weight of the door/lid **W** that must be lifted in Nm – 60kg = 600Nm
- Centre of gravity **D** in mm = 200
- Distance from pivot point perpendicular to the bottom mounting position **C** in mm = 400
- Safety factor of 10%

$$F1 = \frac{600 \times 200}{400} + 10\%$$

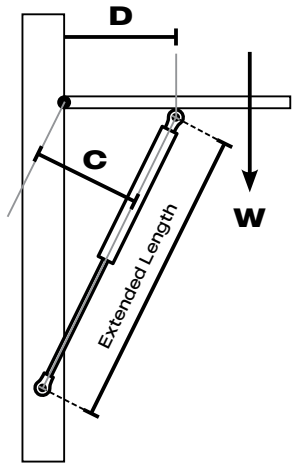
$$F1 = 300Nm + 10\%$$

---

$$F1 = 330Nm$$

---

$$F1 = \frac{W \times D}{C} + 10\%$$



## Features and BENEFITS

### FEATURES

- Manufactured to OE specifications
- Superior materials used
- Vehicle-specific application
- Universal applications for automotive, commercial and industrial use



## Features and BENEFITS

### BENEFITS

- Ensures perfect fit for your application
- Prevents corrosion of gas spring and premature wear
- Strenuous testing done on gas springs
- Can also be used for trailers and various agricultural machinery, bonnet/cabin and bus loading compartments and many more applications

**Distributed by**

**NGK SPARK PLUGS SA (PTY) LTD.**

**HEAD OFFICE**

Bantry Park, 41 Jansen Road, Jet Park,  
Boksburg, 1459, South Africa

PO Box 8156, Elandsfontein, 1406

**T** 011 418 7900 **F** 011 418 7920

**E** [orders@ngkntk.co.za](mailto:orders@ngkntk.co.za)

**HERVIN**  
**GAS SPRINGS**