

## GAS SPRING

**Gestión de Compras** designs, develops and manufactures a huge range of Gas Springs.

### **PRODUCT:**

A gas spring is a self-contained pneumatic device that uses high pressure gas (usually nitrogen) to extend a rod through the differential area in the surface area the pressure acts upon. Their designs allow to be used in areas where it is difficult to use a conventional spring and provide direct support for safely lifting, positioning, lowering and counterbalancing weights. They offer the versatility of a wide range of forces, simple mounting, compact size and speed controlled damping.

The gas spring's function is based on the potential energy of compressed gas which is contained in a cylinder and compressed by a piston to exert a force. When the rod is compressed into the cylinder, the internal pressure and the output force increase according to the volume displaced by the rod. On extension or compression, gas is transferred from one side of the piston to the other via a small orifice. This can be accurately metered to control either the rate of extension, compression or both.



## Gas Springs Parts

- **Tube End Fitting:** This is the mounting point of the tube side of the spring.
- **Gas:** Inert gas (usually nitrogen) which exerts pressure causing the rod to extend.
- **Tube:** It is a hollow steel tube, welded shut on one end filled with gas.
- **Piston:** This part serves to guide the rod in the tube, and meters extension speed.
- **Oil:** A small amount of oil lubricates and acts to decelerate at end of stroke.
- **Rod:** It moves in and out of the tube providing the stroke of the gas spring.
- **Rod end fitting:** It provides an attachment point for the rod end of the spring.

## PRODUCTION:

**Gestión de Compras** designs, develops and manufactures a huge range of Gas Springs. We make any type of gas springs according to customer's specifications. And also according with most demanded gas spring standards, such as ISO 11901.

## MATERIALS AND PRODUCTS:

We offer our range of gas springs in several materials, most demanded are:

- Mild steel.
- Stainless steel.
- Aluminum.

Gas springs are typically used to assist in opening lids, covers, windows, conveyors, and seats and they are used in sectors such as automotive, industrial equipment, machinery, furniture (adjustable chairs, access doors, sofas, beds...), health care industries, agricultural equipment...

Moreover, **Gestión de Compras** offers gas springs for automotive sector like BMW, Nissan, Toyota and other brands such as Honda, Mitsubishi, Audi, Mazda, Renault, etc.

## STANDARD AND CERTIFICATES:

We have the means to ensure our products comply the general regulation and the specific certificated regulations in manufacturing products that requires them.

- ISO 9001.
- ISO 14001.
- TS 16949.
- ISO 8062, ISO 286-2, DIN 2768, DIN 1697, etc.
- OHSAS 18001.
- ISO 11901.



## CONTACT:

In **Gestión de Compras** work with a wide range of customers from different sectors but have in common the search for products that suit your needs at the best Price and the guaranteed maximum quality. Check with us about any product. We have a qualified staff who will advise you.

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