

# SC Fastening Systems

Your single source for OEM hardware and industrial supplies

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## **SAFETY AND INSTALLATION INFORMATION** **IMPORTANT PLEASE READ CAREFULLY**

Great care must be taken to ensure that no damage occurs to the rod which would damage the internal seal, specifically:

### **DO NOT SCRATCH, DENT, CHIP, BEND OR PAINT THE ROD** **ROD DAMAGE WILL INVALIDATE THE GUARANTEE**

On standard gas springs (without a special internal oil chamber) there is a seal where the rod enters the body. For correct working, this seal must be lubricated by the oil within the body. For this reason standard springs must be:

### **STORED WITH THE ROD DOWN** **FITTED WITH THE ROD DOWN**

If it is not possible to fit the springs rod down, fit them so that they are in a rod down position most of the time. If it is not possible to fit the springs such that they are fitted “rod down” please contact International Gas Springs technical sales department, regarding oil chamber springs.

**GAS SPRINGS ARE PRESSURIZED WITH INERT NITROGEN GAS.**

### **DO NOT PUNCTURE OR INCINERATE**

When gas springs are fitted to support loads, where people are in danger should the load fall, care should be exercised with regard to end fitting suitability, mounting position strength and whether a secondary locking mechanism should be employed.

Gas springs will not tolerate side load forces, wherever possible, ball joints should be used to take up any potential side loads. Ensure that the mounting positions are in line and that any flexing of the load does not induce side load forces.

It is essential that the gas spring end fittings are fully screwed on when in use. Failure to fully screw the end fittings severely weakens the springs. Under no circumstances should the end fittings be unscrewed to increase the length of the springs.

On installation or when removing the spring do not unscrew the rod end fitting. If the body end fitting is removed ensure that the body does not rotate during its removal.

Gas springs should not be operated more than 15 times per minute. Faster rates of operation will lead to excessive heat build-up with subsequent internal seal damage.

Where possible, physical stops should be employed limiting the extended and compressed lengths of the spring to within 0.2” of their optimum theoretical values, i.e. ensure that undue force is not applied to over compress or overextend the spring.

The operating temperature range of our standard gas springs is -4 to 176° F.