

## Replacing the gas spring

In general: If you need to replace the gas spring because you've changed your bike (i.e. the bike is heavier or lighter than the weight range of the **BicycleJack** already fitted), this can be done with minimal effort. It does not matter which gas spring is used; all the gas springs we offer are compatible with all **BicycleJacks**. The gas spring must always be fitted with the piston rod pointing downwards. This protects the internal seals from premature embrittlement.

To remove the gas spring, the lever arm must be in the upper position. First, secure the lever arm to prevent it from falling. Then loosen the retaining ring on the bolt securing the lever arm to the gas spring cylinder. The gas spring is supported and the bolt can be removed. Now lift the lever arm slightly upwards; the eye of the gas spring will slide out of the bracket. The gas spring is now free on one side. Loosen the nut securing the gas spring cylinder to the "**BicycleJack**" central frame and then remove the screw; the old cylinder is now free and the new cylinder can be fitted – the installation process is the reverse of the previous description.

## Details and disposal instructions for the gas spring:

Gas springs must be stored upright, with the piston rod pointing downwards

### OPERATING CONDITIONS

Operating temperature range from -30 to +80 °C

Permissible number of strokes (full strokes) 6 per minute; please consult us for higher frequencies.

Endurance performance after 30,000 strokes: maximum pressure loss 15%. Endurance performance varies depending on stroke length and extension force.

Nominal temperature: 20 °C.

Example for force  $F_1 = 500 \text{ N}$  at 20 °C:

+ 35 °C + 5 % = 525 N

- 16 °C 12% = 440 N

### DISPOSAL INSTRUCTIONS

Gas springs are filled with a pressure between 20 and 250 bar and must therefore be depressurised before scrapping.

For safety reasons, proceed as follows:

- Clamp the pressure tube lightly in a vice.
- Cut the pressure tube perpendicular to the axis at a distance of between 30 and 35 mm from the base of the pressure tube.

### STEP-BY-STEP INSTRUCTIONS

1- WEAR SAFETY GLASSES.

2- Use a hand saw suitable for metal. 3- Place a protective cloth over the saw blade.

Stop sawing as soon as hissing noises are heard.

Degassing is complete when the piston rod can be moved freely by hand.

## ENVIRONMENTAL PROTECTION

The filling medium used (nitrogen) is neutral and a component of the Earth's atmosphere. Its release therefore poses no chemical hazard.

The other components (with the exception of the oil) are predominantly made of steel. Disposal of these components is equivalent to recycling steel.

Under no circumstances must the oil contained in the unit be released into the environment (risk of groundwater contamination) or burned by the user; instead, it must be disposed of in accordance with the relevant national regulations.