

# Gas spring seals

Gas spring seals retain oil and pressure up to 200 bar within the gas spring. As such they are critical for the overall function of the spring.

## There are high demands on a gas spring seal:

Maximum dynamic pressures of up to 200 bar (20 MPa) must be reliably maintained within the spring, so the design uses this pressure to support the function.

## SKF offers two basic designs:

- A flexible outer lip to allow sealing with reduced or no axial pre-load
- A flat sealing pad on the outer diameter to ensure static sealing when axially pre-loaded

## Features of the product:

- Bonded metal stamping to support the sealing lips under pressure
- Independent sealing lips on inner diameter and outer diameter helps to eliminate influences from the static outer diameter lip on the dynamic inner diameter lip
- A selection of specially formulated materials to provide optimum sealing over a wide range of operating conditions

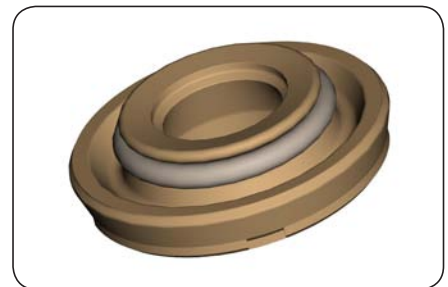
- Lip designs which are capable of sealing both long strokes and high frequency vibrations

## The design and specially formulated materials for the gas spring seals allow for:

- Very low loss of force (high pressure retention)
- Very low weight loss
- Low break-away force
- Low static and dynamic friction

## Through extensive experience, SKF has become the European market leader, creating the most effective product with the following advantages:

- Complete technical service
- Development to specific customer requirements
- Unique manufacturing technology with automatic optical inspection on 100% of parts
- Unrivalled quality
- Long life
- Range of standard seals



*Seal for no axial pre-load*



*Seal for axial pre-load*

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