

Gas spring seals

Gas spring seals ensure that pressure up to 180 bar and oil remain inside a gas spring. As such they are critical for the overall function of the application.

There are high demands on a gas spring seal:

Maximum dynamic pressures of up to 180 bar (18 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 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
- Consistent lubrication with minimal loss of oil

With SKF, you get a truly effective product with the following advantages:

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



skf.com

© SKF is a registered trademark of the SKF Group.

© SKF Group 2019
The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB SE/P8 06719/2 EN · June 2019

For further information, please contact:
seals.automotive@skf.com