



The Z5 pneumatic piston seal is a double U-ring with an integral guiding surface for double-acting pistons. The seal has two sealing lips for particularly high sealing performance.

- Due to application-optimized geometry and compounds suitable for use in oiled as well as in oil-free air (after initial lubrication on assembly).
- Multi-functional sealing element. The guiding area at the sealing element performs the guiding function in the cylinder. However, due to its geometry the sealing element is not suitable for absorption of high radial forces or long strokes.
- Prevents metallic contact between the piston and cylinder. Ideal for light-metal and plastic cylinders (ridging).
- Good wear resistance.
- Smooth running due to optimum lubricant-retaining sealing lip geometry.
- Easier installation.
- Assembly on one-part piston is possible.
- High temperature resistance in case of suitable compound selection.
- Excellent media resistance in case of suitable compound selection.
- Installation in open housings with retaining collar.

## Range of application

Operating pressure	≤ 16 bar
Operating temperature	-30 °C to +80 °C
Sliding speed	≤ 1 m/s
Media	Compressed air, both lubricated and oil-free (after greasing for fitting)

## Compounds

Standard: N3578, NBR compound (≈ 75 Shore A).

For low temperatures: N8602, NBR compound (≈ 70 Shore A).

For high temperatures: V8550, FKM compound (≈ 80 Shore A).

## Installation

The profile Z5 pneumatic cylinder seals can be easily mounted by pulling them over the one-piece piston.

Care should be taken that all edges are chamfered to avoid seal damage.

In case of special operating conditions (specific pressure loads, temperature, speed, use in water, HFA, HFB fluids etc.), please contact our consultancy service for a selection of the material and design best suiting your particular application requirements.

