The profile PZ pneumatic piston seal has been developed for use in pneumatic cylinders and in valves. The double-acting piston seal requires only small housing dimensions.

- Due to application-optimized geometry and compounds suitable for use in oiled as well as in oil-free air (after initial lubrication on assembly).
- Good sealing performance in extremely small assembly conditions.
- Can also be used for single-acting applications.
- Good wear resistance.
- Low static and dynamic friction thanks to miniaturized design.
- Smooth running due to optimum lubricant-retaining sealing lip geometry.
- Suitable for fully automatic 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.
- Short axial assembly length.
- Installation in closed housings.

Range of application

Working pressure	≤ 12 bar
Working temperature	-20 °C to +80 °C
Surface speed	≤ 1 m/s
Media	Oiled as well as oil-free compressed air (after initial lubrication during assembly).

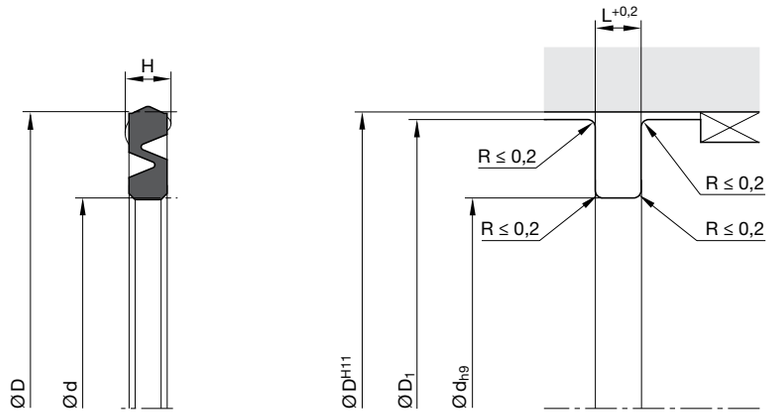
Compounds

Standard: N3571, NBR compound (≈ 70 Shore A)
for low temperatures: N8602, NBR compound (≈ 70 Shore A)
for high temperatures: V3681, FKM compound (≈ 80 Shore A)

Installation

The profile PZ pneumatic piston seals can be easily mounted into the grooves by simply pulling them over the piston.
To avoid damaging the seal, sharp edges should be removed from the piston and the cylinder tube.
For oil-free conditions, it is important to obtain a full lubrication film inside the cylinder tube prior to assembly to ensure long service life of the seal.
For piston guidance, we recommend our profile F2 piston guidance tape. For dimensions of pistons and clearances, please refer to our profile F2.

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.



For surface finish, lead in chamfer and other installation dimensions see “General installation guidelines”.

D	d	H	L	D_1	Order code
10	6.5	1.4	1.8	9.6	PZ 1006 N3571
12	7	2	2.5	11.6	PZ 1207 N3571
16	9	2.1	2.5	15.6	PZ 1605 N3571
20	13	2.1	2.5	19.6	PZ 2013 N3571
25	18	2.1	2.5	24.6	PZ 2518 N3571
28	19	2.5	3	27.6	PZ 2819 N3571
30	21	2.5	3	29.6	PZ 3021 N3571
32	23	2.5	3	31.6	PZ 3210 N3571
35	26	2.5	3	34.5	PZ 3520 N3571
40	31	2.5	3	39.5	PZ 4031 N3571
45	36	2.5	3	44.5	PZ 4520 N3571
50	41	2.5	3	49.5	PZ 5010 N3571
63	51	3.4	4	62.5	PZ 6051 N3571
80	68	3.4	4	79.5	PZ 8010 N3571
100	88	3.4	4	99.4	PZ A008 N3571
125	110	4.4	5	124.4	PZ C050 N3571

Further sizes on request.