



The profile Z7 pneumatic piston seal is a U-ring with an integral guiding surface for single-acting pistons.

- 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

Working pressure	≤ 16 bar
Working temperature	-30 °C to +80 °C
Surface speed	≤ 1 m/s
Media	Oiled as well as oil-free compressed air (after initial lubrication during assembly).

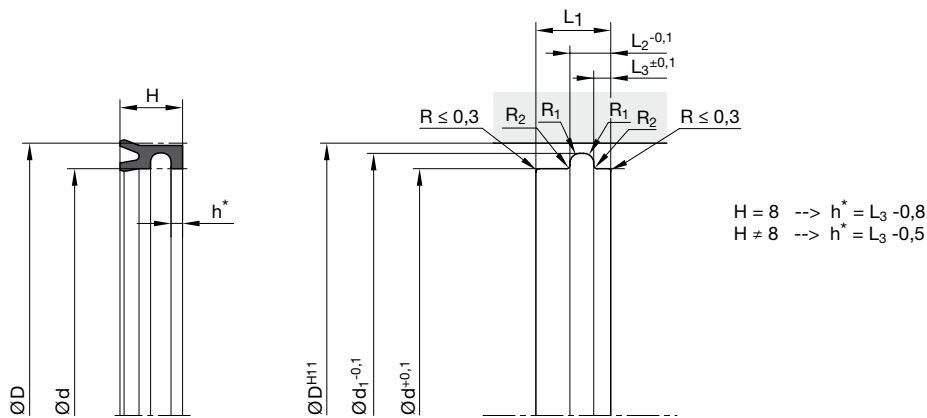
Compounds

Standard: N3578, NBR Compound (≈ 75 Shore A)
 for low temperatures: N8602, NBR Compound (≈ 70 Shore A)
 for high temperatures: V3681, FKM Compound (≈ 80 Shore A)

Installation

The profile Z7 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 suited to your particular application requirements.



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

D	d	H	d ₁	L ₁	L ₂	L ₃	R ₁	R ₂	Order code
16	10	8	13.5	9.5	3	2	0.9	0.2	Z7 1610 N3578
18	12	8	15.5	9.5	3	2	0.9	0.2	Z7 1812 N3578
20	14	8	17.5	9.5	3	2	0.9	0.2	Z7 2014 N3578
25	18	9	22.5	9.5	3	2	1.3	0.2	Z7 2518 N3578
28	22	8	25.5	9.5	3	2	1.3	0.2	Z7 2822 N3578
30	23	9	27.5	10	3	2	1.3	0.2	Z7 3023 N3578
32	25	9	29.5	10	3	2	1.3	0.2	Z7 3225 N3578
35	28	9	32.5	10	3	2	1.3	0.2	Z7 3528 N3578
40	33	9	37.5	10	3	2	1.3	0.2	Z7 4033 N3578
45	38	9	42.5	10	3	2	1.3	0.2	Z7 4538 N3578
50	43	9	47.5	10	3	2	1.3	0.2	Z7 5043 N3578
54	46	10	51.5	11	4	2	1.3	0.2	Z7 5446 N3578
63	53	13	60	14.5	5	2.5	1.6	0.3	Z7 6353 N3578
63	56	9	60.5	10	3	2	1.3	0.3	Z7 6356 N3578
70	62	10	67.5	11	4	2	1.6	0.3	Z7 7007 N3578
80	72	10	77.4	11	4	2	1.6	0.3	Z7 8067 N3578
80	70	14	77	15.5	6	2.5	1.6	0.3	Z7 8070 N3578
100	88	16.5	96.5	18	8	2.5	1.6	0.4	Z7 A088 N3578
100	90	12	97	13.5	4	2.5	1.6	0.3	Z7 A089 N3578

Further sizes on request.