The self-retaining pneumatic rod seal/wiper set profile E8 for piston rods in pneumatic cylinders combines three functions:
Sealing, wiping, fixing.

The split design of the sealing set allows optimal adaptation of the materials to the requirements of the individual component (wiper and/or seal).

- Due to application-optimized geometry and compounds suitable for use in oiled as well as in oil-free air (after initial lubrication on assembly).
- Bi-functional element: seal and wiper.
- Good wear resistance.
- No risk of corrosion since the combined retainer and wiper part eliminates the need for additional wire circlips.
- Long service life due to coordinated geometries of the functional lips and compound selection.
- Smooth running due to optimum lubricant-retaining sealing lip geometry.
- High temperature resistance in case of suitable compound selection.
- Excellent media resistance in case of suitable compound selection.
- Product geometry prevents dirt deposits at the front face of the cylinder.
- Identical housing for E7, E8, E9, EU, EF and ET.
- Installation in open housings.
- The coordinated geometries of the seal and wiper lips achieve favourable friction coefficients and long service life.

Range of application

Working pressure	≤ 16 bar
Working temperature	-20 °C to +80 °C [1]
Surface speed	≤ 1 m/s
Media	Oiled as well as oil-free compressed air (after initial lubrication during assembly).

[1] For higher temperatures, see profile E9.

Compounds

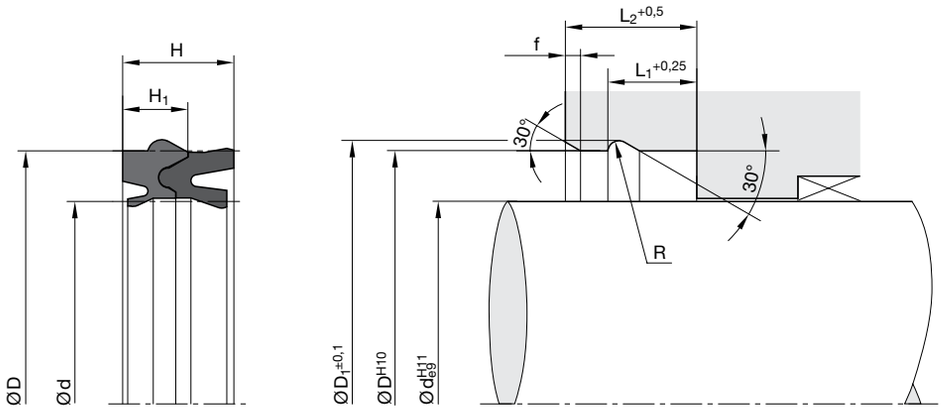
The sealing part of the profile E8 pneumatic rod seal/wiper is made of a special SFR® elastomer N3580 (NBR-based) with a hardness of approx. 80 Shore A.
This compound has excellent running properties, especially in the semi-frictional area.
The profile EA fixing/scraping part is made of the highly wear resistant W5035 plastic material.

Installation

The pneumatic profile E8 rod seal/wiper set is fitted into the housing by means of a circlip recess according to DIN 7993 (type B). The sealing part is pushed in and fixed by the EA retainer/wiper, which snaps in easily. During assembly, care should be taken to ensure that neither the scraper nor the sealing lips be damaged by sharp edges.

In case the seal/wiper set needs to be exchanged, this can be accomplished without removing the piston rod if a dismantling recess has been provided for.

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	H_1	D_1	L_1	L_2	R	f	Order code
12	19	10	5.9	21	8	12.3	1.1	1.5	E8 0009 00606
12	20	10.3	5.5	22	8.8	13	1.1	1.5	E8 0011 00606
12	22	11	5.5	24	8.8	13	1.1	1.5	E8 0012 00606
14	24	11	5.5	26	8.8	13	1.1	1.5	E8 0014 00606
16	26	11	5.5	28	8.8	13	1.1	1.5	E8 0016 00606
18	28	11	5.5	30	8.8	13	1.1	1.5	E8 0018 00606
18	26	11	5.5	28	8.8	13	1.1	1.5	E8 0036 00606
20	30	11	5.5	32	8.8	13	1.1	1.5	E8 0020 00606
22	32	11.5	6.45	34.5	9.4	14	1.4	2	E8 0022 00606
25	35	11.5	6.45	37.5	9.4	14	1.4	2	E8 0025 00606
28	38	11.5	6.45	40.5	9.4	14	1.4	2	E8 0028 00606
30	40	11.5	6.45	42.5	9.4	14	1.4	2	E8 0030 00606
32	42	11.5	6.45	44.5	9.4	14	1.4	2	E8 0032 00606
35	45	11.5	6.45	47.5	9.4	14	1.4	2	E8 0035 00606
40	50	11.5	6.45	52.5	9.4	14	1.4	2	E8 0040 00606
45	55	12.5	7.45	58.2	10.4	15	1.8	2	E8 0045 00606
50	60	12.5	7.45	63.2	10.4	15	1.8	2	E8 0050 00606
63	75	13	7.45	78.2	11.4	16	1.8	2	E8 0063 00606

Further sizes on request.