



- 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.
- 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.
- Identical housing for E7, E8, E9, EU, EF and ET.
- Installation in closed and undercut housings.
- The coordinated geometries of the seal and wiper lips achieve favourable friction coefficients and long service life.

The E9 pneumatic seal/wiper ring for pneumatic cylinder piston rods is the high-temperature version of the profiles E8 and EU.

Range of application

Working pressure	≤ 16 bar
Working temperature	-10 °C to +150 °C
Surface speed	≤ 1 m/s
Media	Oiled as well as oil-free compressed air (after initial lubrication during assembly).

Compounds

Standard compound is a special FKM-based elastomer with a Shore hardness of approx. 81 A and a vulcanized metal disc (circlip according to DIN 7993 type B).

Installation

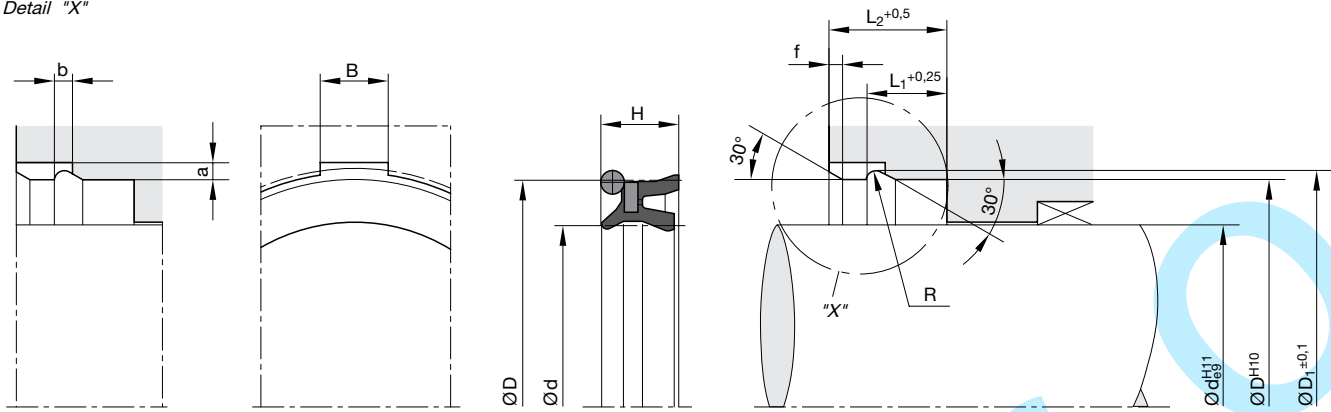
The pneumatic profile E9 rod seal/wiper set is fitted into the housing by means of a circlip recess according to DIN 7993 (type B). The sealing part is pushed in and fixed by the circlip.

Damage to the scraper and the sealing lips by sharp edges must be prevented during assembly.

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 (detail "X").

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.

Detail "X"



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

d	D	H	D ₁	L ₁	L ₂	R	a	b	B	f	Order code
12	20	8.5	22	8.8	13	1.1	1.8	2.2	4	1.5	E9 9011 00606
12	22	8.5	24	8.8	13	1.1	1.8	2.2	4	1.5	E9 9012 00606
16	26	8.5	28	8.8	13	1.1	1.8	2.2	5	1.5	E9 9016 00606
18	26	8.5	28	8.8	13	1.1	1.8	2.2	5	1.5	E9 9017 00606
18	28	8.5	30	8.8	13	1.1	1.8	2.2	5	1.5	E9 9018 00606
20	30	8.5	32	8.8	13	1.1	1.8	2.2	5	1.5	E9 9020 00606
22	32	8.5	34.5	9.4	14	1.4	2	2.8	7.5	2	E9 9022 00606
25	35	8.5	37.5	9.4	14	1.4	2	2.8	7.5	2	E9 9025 00606
32	42	8.5	44.5	9.4	14	1.4	2	2.8	7.5	2	E9 9032 00606
40	50	8.5	52.5	9.4	14	1.4	2	2.8	7.5	2	E9 9040 00606
50	60	8.5	63.2	10.4	15	1.8	2.5	3.6	10	2	E9 9050 00606
63	75	10	78.2	11.4	16	1.8	2.5	3.6	10	2	E9 9063 00606

Further sizes on request.