



- 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.
- Extreme wear resistance.
- Low static and dynamic friction thanks to miniaturized design.
- Smooth running due to optimum adjustment of the functional lips.
- Smooth running due to optimum lubricant-retaining sealing lip geometry.
- Excellent media resistance in case of suitable compound selection.
- Short axial assembly length.
- Short radial assembly depth.
- Installation in closed and undercut housings.
- Low compression set.
- The coordinated geometries of the seal and wiper lips achieve favourable friction coefficients and long service life.

The profile design of the profile EM rod seal/wiper combines the profile geometry of our tried and proven profile EL with the requirements of mini-pneumatics, i.e. the dimensions of profile EM are considerably smaller and friction values are even lower.

Range of application

Rod seal/wiper for mini-pneumatics.

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).

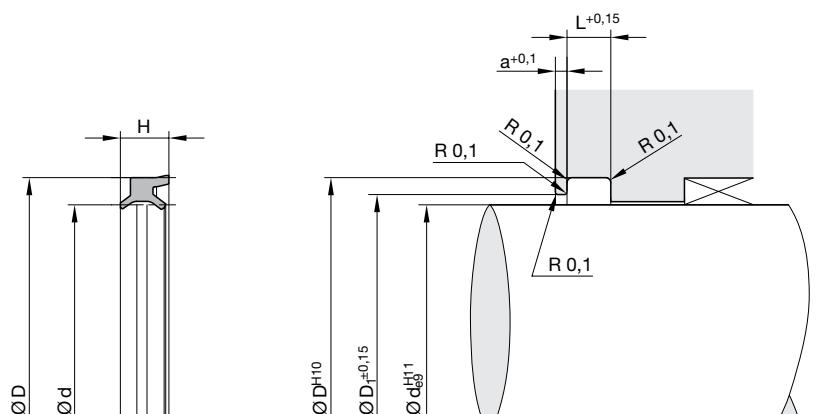
Compounds

Standard: P5010, PUR compound (≈ 90 Shore A)
 for low temperatures: P5009, PUR compound (≈ 94 Shore A)
 for high temperatures: V3839, FKM compound (≈ 90 Shore A)

Installation

The self-retaining rod seal/wiper profile EM is manually or automatically snapped into the installation housing while the piston rod is disassembled. Care is to be taken to prevent sharp edges from damaging the wiping and sealing lips during assembly. Initial lubrication is the prerequisite for very long operational life.

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	D ₁	L	a	Order code
3	5.6	2.8	4.6	2.7	0.6	EM 0302 P5010
4	7	2.8	5.6	2.7	0.8	EM 0407 P5010
5	8	2.8	7.1	2.7	0.8	EM 0508 P5010
6	9	2.8	8.1	2.7	1	EM 0609 P5010
8	11.5	3.2	10.1	3	1	EM 0811 P5010
10	14	3.7	12.1	3.4	1	EM 1014 P5010
12	16.5	4	14.1	3.7	1.2	EM 1214 P5010
14	18.5	4	16.1	3.7	1.2	EM 1418 P5010
16	20.5	4	18.1	3.7	1.2	EM 1620 P5010
18	22.5	4	20.1	3.7	1.2	EM 1822 P5010
20	25	4.6	23.1	4.15	1.2	EM 2025 P5010
22	27	4.6	23.9	4.15	1.2	EM 2227 P5010
25	30	4.6	26.9	4.15	1.2	EM 2530 P5010
30	35.5	5	32.1	4.55	1.2	EM 3035 P5010
32	37.5	5	34.1	4.55	1.2	EM 3237 P5010
35	40.5	5	37.1	4.55	1.2	EM 3505 P5010*
40	46	5.5	42.2	4.9	1.4	EM 4005 P5010*
45	51	5.5	47.2	4.9	1.4	EM 4505 P5010*
50	56	5.5	52.2	4.9	1.4	EM 5005 P5010*
63	69.5	6	65.4	5.4	1.4	EM 6306 P5010*

* Moulds not available on the date of printing.
Further sizes on request.