The function of the pneumatic wiper ring A2 is to prevent dust, dirt, grains of sand and metal shavings from entering the dynamic rod guide. This is achieved by a special design which largely prevents the development of dents, protecting the guiding parts, and extending the working life of the seals.

This wiper is specially developed for pneumatic equipment operated with dry air and oil-free air. This wiper must be pregreased prior to installation.

Oversized diameters ensure a tight fit in the groove recess, thus preventing the penetration of foreign particles and dampness.

The profile A2 pneumatic wiper ring provides a technically proper closure at the cylinder requiring no screwings brackets, close tolerances, and no metal inserts. There will be no corrosion as in the case with metalcased wipers. For the groove recess fine fitting is not required.

- 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.
- Product geometry prevents dirt deposits at the front face of the cylinder.
- Installation in closed and undercut housings.

Range of application

Suitable for axially operated rods in pneumatic cylinders, plungers and rod guides.

Working temperature	
A2 NBR N3587	-30 °C to +80 °C
A2 PUR P5008	-35 °C to +80 °C
Surface speed	≤ 2 m/s
Media	Oiled as well as oil-free compressed air (after initial lubrication during assembly).

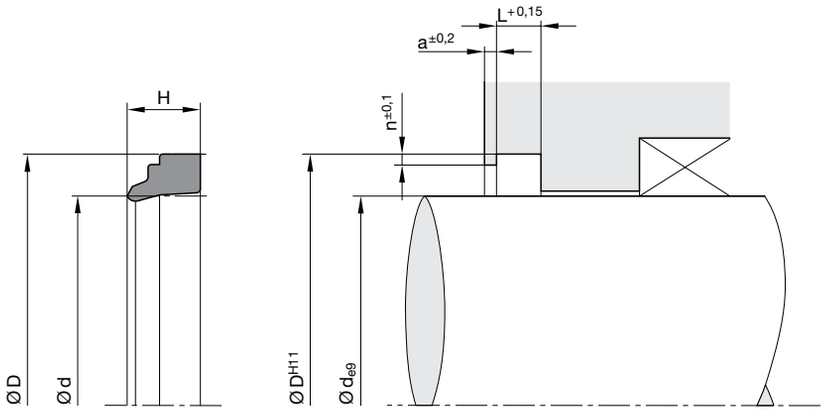
Compounds

Standard: N3587, NBR compound (≈90 Shore A)
for low temperatures: N8613, NBR compound (≈ 80 Shore A)
for high temperatures: V3664, FKM compound (≈ 85 Shore A)
Standard: P5008, PUR compound (≈ 94 Shore A)
for low temperatures: P5009, PUR compound (≈ 94 Shore A)

Installation

The profile A2 wiper ring is supplied as a continous ring. Any pressure on the back of the ring should be avoided.
Intermediate sizes may easily be manufactured from the next largest ring with the same cross-section. For this, the ring should be cut at an angle of 90° to the circumfence length (+2 to 3 % in excess). Due to the excess length, the two ends will fit closely together so that no gap will occur. Gluing is not necessary. The wiper may easily be pressed into the groove recess with a resulting tight fit.

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	a	n	Order code
A2 NBR N3587						
10	16	5	2.6	1	1	A2 1016 N3587
12	20	7	4	1	1	A2 1005 N3587
14	22	7	4	1	1	A2 1010 N3587
16	24	7	4	1	1	A2 1055 N3587
18	26	7	4	1	1	A2 1015 N3587
20	28	7	4	1	1	A2 2005 N3587
22	30	7	4	1	1	A2 2230 N3587
25	33	7	4	1	1	A2 2025 N3587
28	36	7	4	1	1	A2 2044 N3587
30	38	7	4	1	1	A2 3010 N3587
36	44	7	4	1	1	A2 3030 N3587
40	48	7	4	1	1	A2 4003 N3587
45	53	7	4	1	1	A2 4015 N3587
50	58	7	4	1	1	A2 5010 N3587
56	64	7	4	1	1	A2 5025 N3587
60	68	7	4	1	1	A2 6005 N3587
70	78	7	4	1	1	A2 7015 N3587
80	88	7	4	1	1	A2 8005 N3587
88	96	7	4	1	1	A2 8025 N3587
90	98	7	4	1	1	A2 9007 N3587
A2 PUR P5008						
20	28	7	4	1	1	A2 2005 P5008

Further sizes on request.