



- Robust seal profile for harshest operating conditions.
- Extreme wear resistance.
- Suitable for fully automatic installation
- Dimensions according to DIN ISO 6195, Type B.
- Simple fabrication of the housing.

The profile AF Ultrathan® wiper ring serves the purpose of preventing the penetration of dust, dirt, sand, and metal swarf into hydraulic cylinders. This reduces the risk of scoring caused by contaminants from external sources imbedded in the sliding parts. The excellent wiping effect is achieved by the special design of the wiper lip.

The proven PU-compound P5008 stands for high abrasion resistance, minor permanent deformation, and robustness vis-a-vis external mechanical impact. By means of a press fit of the metal scan vis-a-vis the external diameter of the seal housing, the wiper is securely held in place in the axially open installation housing. Thanks to the flush end fit of the wiper lip with the cylinder head the lip enjoys a high degree of protection against damage from external causes.

Profile AF provides a proper sealing end device from an engineering point of view and, in conjunction with our rod seals profiles B3 and BU constitutes a sealing system that has been tried and proven under the toughest field conditions.

Range of Application

Hydraulic cylinders and valves.

Working temperature	-35 °C to +100 °C
Surface speed	≤ 2 m/s

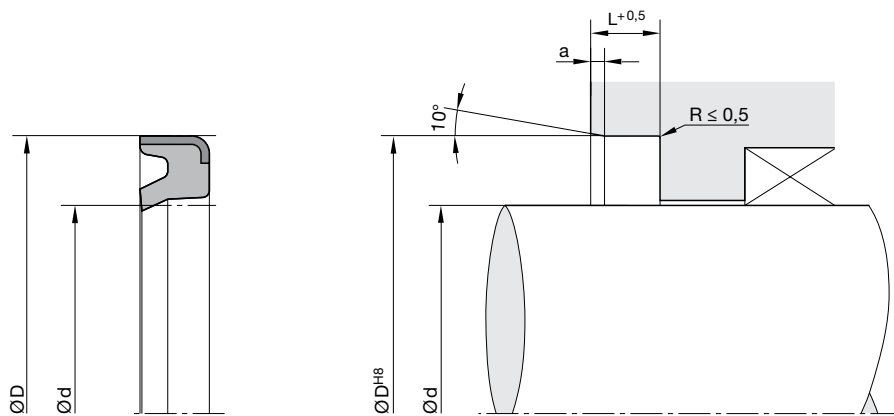
Compounds

Standard material of the elastomer part is P5008, a polyurethane-based Parker compound with a hardness of approx. 93 Shore A. In comparison with other polyurethane materials currently available on the market, it excels because of its increased heat resistance, and improved performance against hydrolysis.

Installation

The profile AF Ultrathan® wiper rings are manufactured with a slightly oversized outer diameter D, thus ensuring a secure press fit in the groove D^{H8} after installation. Any contact of the wiper lip with piston rod eyes or other connecting parts should be avoided.

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	L	a	ISO ¹⁾	Order code	d	D	L	a	ISO ¹⁾	Order code
20	30	7	1	•	AF 2030 Z5071	85	99	8	1.5		AF 8509 Z5071
25	35	7	1	•	AF 2535 Z5071	85	105	10	2		AF 8515 Z5071
30	40	6	1		AF 3040 Z5071	90	100	7	1	•	AF 9020 Z5071
36	48	6	1		AF 3648 Z5071	90	104	8	1.5		AF 9033 Z5071
40	50	7	1	•	AF 4050 Z5071*	90	105	6	1		AF 9030 Z5071
40	52	6	1		AF 4052 Z5071	90	110	10	2		AF 9037 Z5071
45	55	7	1	•	AF 4555 Z5071*	95	109	8	1.5		AF 9505 Z5071
45	60	7.5	1		AF 4560 Z5071	100	114	8	1.5		AF A014 Z5071
50	60	7	1	•	AF 5060 Z5071	100	115	7	1		AF A016 Z5071
50	65	7.5	1		AF 5064 Z5071	100	115	9	1.5	•	AF A015 Z5071*
56	70	7.5	1		AF 5656 Z5071	100	120	10	2		AF A021 Z5071
57.15	69.96	7.92	1.5		AF 5715 Z5071	101.6	114	8	1.5		AF A024 Z5071
60	70	7	1		AF 6005 Z5071	110	125	9	1.5	•	AF B025 Z5071
60	74	8	1.5		AF 6008 Z5107	110	126	9	1.5		AF B009 Z5071
60	75	-	0.7		AF 6028 Z5071	110	130	10	2		AF B011 Z5071
63	73	7	1	•	AF 6375 Z5071	120	140	8	1.5		AF C023 Z5071
63	78	7.5	1		AF 6378 Z5071	120	140	10	2		AF C024 Z5071
65	79	8	1.5		AF 6505 Z5071	125	140	9	2	•	AF C514 Z5071*
65	80	5	0.7		AF 6509 Z5071						
69.85	95.4	12.7	2		AF 6908 Z5071						
70	80	7	1	•	AF 7005 Z5071						
70	84	8	1.5		AF 7016 Z5071						
70	85	7.5	1		AF 7085 Z5071						
71	86	5	0.7		AF 7110 Z5071						
75	85	7	1		AF 7505 Z5071						
75	89	8	1.5		AF 7537 Z5071						
75	90	5	0.7		AF 7590 Z5071						
76.5	96.5	10	2		AF 7696 Z5071						
80	90	7	1	•	AF 8090 Z5071						
80	94	8	1.5		AF 8013 Z5071						
80	95	5	0.7		AF 8005 Z5071						
80	100	10	2		AF 8021 Z5071						
82.55	108.08	12.7	2		AF 8205 Z5071						
85	95	7	1		AF 8505 Z5071						

1) DIN ISO 6195, Type B

* Moulds not available on the date of printing.

Further sizes on request.