



The profile B7 Ultrathan® piston seal is a lipseal which fits tightly in the groove. This seal may be used for all applications where the physical properties of normal or fabric reinforced elastomers are insufficient.

- Robust seal profile for harshest operating conditions.
- Extreme wear resistance.
- Easier installation.
- Suitable for fully automatic installation
- Assembly on one-part piston is possible.
- Insensitive to pressure peaks.
- High extrusion resistance.
- Excellent media resistance in case of suitable compound selection.
- Suitable compounds available for special requirements of the chemical process industry.
- Suitable compounds available for special requirements of the food processing industry.
- Dimensions according to ISO 5597.
- Installation in closed and undercut housings.
- Low compression set.
- Machined small-volume series and samples available with short lead times.

Range of Application

Mainly for the sealing of pistons in heavy duty applications in mobile and stationary hydraulics.

Working pressure	≤ 400 bar
Working temperature	-35 °C to +110 °C
Surface speed	≤ 0.5 m/s
Media	Mineral-oil based hydraulic oils.

Compounds

The P5008 compound is a Parker material based on polyurethane with a hardness of approx. 93 Shore A. Its main advantages in comparison with other polyurethane materials currently available on the market are the increased heat resistance and the lower compression set.

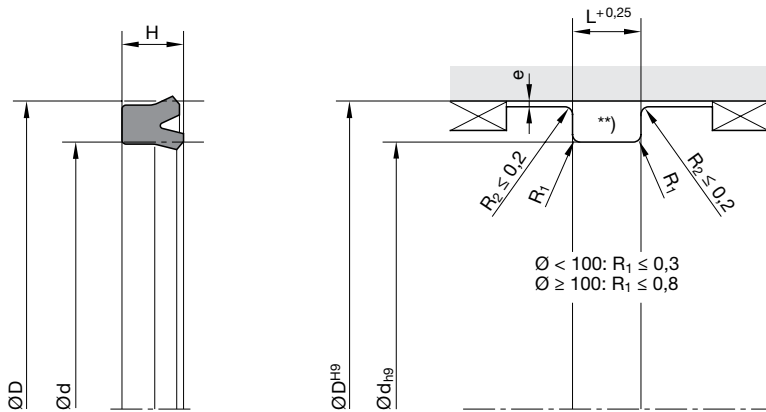
For media containing water, we recommend our hydrolysis-resistant polyurethane compound P5001.

Installation

The seals should have an axial clearance (see columns H and L). To avoid damage at the sealing lips, the seals should not be pulled over sharp edges during installation.

Normally these seals may be snapped into closed grooves. Where access is restricted special assembly tools may be required. Proposals for the design of such tools will be provided on request.

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.



** In the case of designs according to ISO standard, the radii given there should be used.
"e" see chapter "Maximum gap allowance"

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

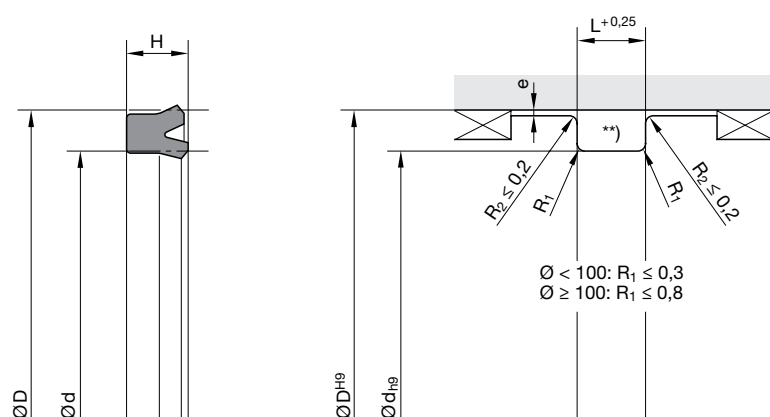
D	d	H	L	ISO ¹⁾	ISO ²⁾	Order code
15	10	4.2	4.7			B7 1504 P5008
16	8	5.7	6.3		•	B7 1608 P5008
16	10	5.7	6.3			B7 1610 P5008
20	12	4.2	4.7			B7 2011 P5008
20	12	5.7	6.3		•	B7 2012 P5008
22	12	8	9			B7 2212 P5008
24	16	5.7	6.3			B7 2416 P5008
25	15	7.3	8		•	B7 2015 P5008
25	17	4.5	5		•	B7 2516 P5008
25	17	5.7	6.3		•	B7 2517 P5008
25	18	5	5.6	•		B7 2520 P5008
27	20	7	8			B7 2720 P5008
28	20	7	8			B7 2810 P5008
32	22	7.3	8		•	B7 3222 P5008
32	24	5.7	6.3		•	B7 3224 P5008
32	25	5	5.6	•		B7 3226 P5008
34	22	8.5	9.5			B7 3422 P5008
35	25	6	6.8			B7 3524 P5008
35	25	7.3	8			B7 3525 P5008
38.1	30.1	5.7	6.3			B7 3810 P5008
39	29	7.3	8			B7 3909 P5008
40	28	10	11			B7 4018 P5008
40	30	7.3	8		•	B7 4030 P5008
40	30	10	11			B7 4031 P5008
40	32	5.7	6.3	•	•	B7 4032 P5008
40	33	8	9			B7 4033 P5008
43	33	7.3	8			B7 4304 P5008
45	35	7.3	8			B7 4535 P5008
50	35	10	11			B7 5010 P5008
50	35	11.4	12.5		•	B7 5035 P5008
50	40	7.3	8		•	B7 5040 P5008
50	40	10	11			B7 5041 P5008
50	42	5.7	6.3	•		B7 5016 P5008
50.8	41.17	6.2	7			B7 5043 P5008

D	d	H	L	ISO ¹⁾	ISO ²⁾	Order code
52	42	7.3	8			B7 5209 P5008
54	44	5.5	6.1			B7 5405 P5008
54	44	7.3	8			B7 5409 P5008
55	45	7.3	8			B7 5545 P5008
57	41	11.4	12.5			B7 5703 P5008
60	50	7.3	8			B7 6050 P5008
60	50	10	11			B7 6009 P5008
63	48	8.6	9.5		•	B7 6032 P5008
63	48	11.4	12.5		•	B7 6348 P5008
63	53	7.3	8		•	B7 6353 P5008
63	55	5.7	6.3	•		B7 6355 P5008
65	55	7.3	8			B7 6055 P5008
67	57	7.3	8			B7 6709 P5008
68	58	9.5	10.5			B7 6805 P5008
70	60	7.5	8.2			B7 7011 P5008
70	60	12	13			B7 7012 P5008
75	63	8.7	9.5			B7 7027 P5008
80	60	14.5	16		•	B7 8060 P5008
80	65	8.6	9.5		•	B7 8008 P5008
80	65	11.4	12.5		•	B7 8065 P5008
80	70	6.7	7.5	•		B7 8010 P5008
80	70	12	13			B7 8011 P5008
90	75	11.4	12.5			B7 9075 P5008
95	80	11.4	12.5			B7 9580 P5008
100	80	14.5	16		•	B7 A080 P5008
100	85	11.4	12.5		•	B7 A085 P5008
100	88	9.5	10.5			B7 A088 P5008
100	90	6.7	7.5	•		B7 A090 P5008
110	90	8	9			B7 B008 P5008
110	90	15	16.5			B7 B004 P5008
115	98	14.5	16			B7 B050 P5008
120	105	11.4	12.5			B7 C120 P5008
121	111.1	9.5	10.5			B7 C050 P5008
125	100	18.2	20		•	B7 C210 P5008

1) For housings according to ISO 5597 for ISO 6020-2 cylinders.

2) Standard sizes for housings according to ISO 5597.

Further sizes on request.



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"e" see chapter "Maximum gap allowance"

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D	d	H	L	ISO ¹⁾	ISO ²⁾	Order code
125	105	14.5	16		•	B7 C215 P5008
125	110	9.6	10.6	•		B7 C219 P5008
145	115	18	20			B7 E050 P5008
152.4	136.5	10	11			B7 F024 P5008
160	135	18.2	20		•	B7 G035 P5008
160	140	14.5	16		•	B7 G040 P5008
180	150	18	20			B7 J004 P5008
200	170	22.7	25		•	B7 L007 P5008
200	175	18.2	20		•	B7 L010 P5008
200	185	9.6	10.6	•		B7 L013 P5008
220	200	15	16.5			B7 M020 P5008
240	215	15	16.5			B7 N010 P5008
250	220	22.7	25		•	B7 N120 P5008
250	225	18.2	20		•	B7 N125 P5008
250	230	15	16.5			B7 N130 P5008
270	240	22.5	25			B7 O170 P5008
310	280	22.7	25			B7 Q028 P5008
320	290	20	22		•	B7 Q210 P5008

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2) Standard sizes for housings according to ISO 5597.

Further sizes on request.