



The Ultrathan® piston sealing set profile KR complements the product range of double-acting piston seals (OE, OK) for installation housings according to ISO 7425/1 by a product which is preferably used in the pressure range up to a maximum of 300 bar. The seal components are a slide ring consisting of a newly developed polyurethane with improved sliding qualities and an especially high module and a leader element with rectangular cross-section made of an NBR-elastomere.

- Exceptionally high static and dynamic sealing performance.
- Good sealing performance in extremely small assembly conditions.
- Can also be used for single-acting applications.
- Robust seal profile for harshest operating conditions.
- Extreme wear resistance.
- Long service life thanks to application-optimized compounds.
- Constantly low dynamic friction throughout the part's service life.
- Easy snap assembly on a single-part piston.
- Insensitive to pressure peaks.
- Functional reliability at critical temperatures.
- High extrusion resistance.
- Dimensions according to ISO 7425-2.
- Short axial assembly length.
- Installation in closed and undercut housings.
- Low compression set.

Range of Application

The KR profile is suitable for use in all standard industrial cylinders as well as in farming equipment, light construction machinery and mobile devices. Due to the exceptionally high dynamic sealing performance, it is particularly suited for leakage-critical applications.

Working pressure	≤ 300 bar
Working temperature	-35 °C to +110 °C
Surface speed	≤ 0.5 m/s

Compounds

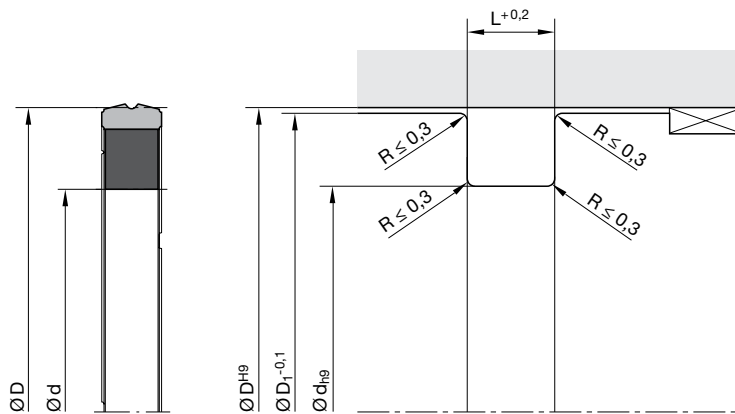
Slide ring: P5062, modified polyurethane with a hardness of approximately 55 Shore D

Expander ring: NB078, NBR-elastomer with a hardness of approximately 80 Shore A

Installation

The installation groove must be carefully deburred and cleaned. The cylinder bore must have a leading edge chamfer. Profile KR can be snapped into closed grooves.

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.



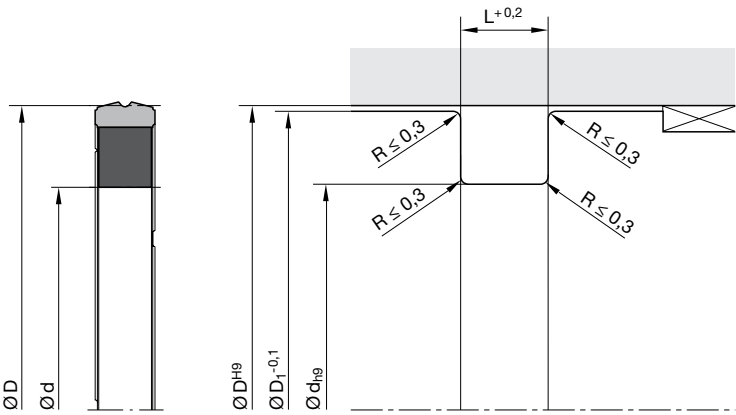
For surface finish, lead in chamfer and other installation dimensions see "General installation guidelines".

D	d	L	D ₁	ISO ¹⁾	Order code	D	d	L	D ₁	ISO ¹⁾	Order code
20	12.5	3.2	19.7		KR 0020 00701	70	59	4.2	69.7		KR 0070 00701
25	14	4.2	24.7	•	KR 1025 00701	75	59.5	6.3	74.6		KR 0075 00701
25	16	4.2	24.7		KR 2025 00701	75	62	6.3	74.6		KR 2075 00701
25	17.5	3.2	24.7		KR 0025 00701	75	64	4.2	74.7		KR 1075 00701*
28	20.5	3.2	27.7		KR 0028 00701*	80	59	8.1	79.5		KR 2080 00701*
30	19	4.2	29.7		KR 1030 00701*	80	59	10.5	79.5		KR 3080 00701*
30	22.5	3.2	29.7		KR 0030 00701*	80	64.5	6.3	79.6	•	KR 0080 00701
32	21	4.2	31.7	•	KR 1032 00701	80	66.5	6.3	79.6		KR 1080 00701
32	24.5	3.2	31.7	•	KR 0032 00701	80	69	4.2	79.7	•	KR 4080 00701
35	27.5	3.2	34.7		KR 0035 00701*	85	69.5	6.3	84.7		KR 1085 00701*
36	25	4.2	35.7		KR 0036 00701*	85	71.5	6.3	84.6		KR 0085 00701
40	24.5	6.3	39.6		KR 1040 00701*	90	69	8.1	89.5		KR 1090 00701
40	27	6.3	39.6		KR 2040 00701*	90	69	10.5	89.5		KR 2090 00701
40	29	4.2	39.7	•	KR 0040 00701	90	74.5	6.3	89.6		KR 0090 00701
40	32.5	3.2	39.7	•	KR 3040 00701	95	79.5	6.3	94.6		KR 0095 00701
45	32	6.3	44.6		KR 1045 00701	100	79	8.1	99.5		KR 2100 00701
45	34	4.2	44.7		KR 0045 00701	100	84.5	6.3	99.6	•	KR 0100 00701
50	34.5	6.3	49.6	•	KR 1050 00701	100	86.5	6.3	99.6		KR 1100 00701
50	37	6.3	49.6		KR 2050 00701*	105	84.5	6.3	104.6		KR 2105 00701
50	39	4.2	49.7	•	KR 0050 00701	105	89.5	6.3	104.6		KR 0105 00701
55	39.5	6.3	54.6		KR 1055 00701	110	89	8.1	109.5		KR 1110 00701
55	44	4.2	54.7		KR 0055 00701*	110	89	10.5	109.5		KR 2110 00701*
58	45	6.3	57.6		KR 0058 00701*	110	94.5	6.3	109.6		KR 0110 00701*
60	44.5	6.3	59.6		KR 1060 00701	115	94	8.1	114.5		KR 0115 00701
60	49	4.2	59.7		KR 0060 00701	120	99	8.1	119.5		KR 2120 00701
63	47.5	6.3	62.6	•	KR 2063 00701	120	99	10.5	119.5		KR 1120 00701
63	50	6.3	62.6		KR 3063 00701	120	104.5	6.3	119.6		KR 0120 00701*
63	52	4.2	63.7	•	KR 0063 00701	125	104	8.1	124.5	•	KR 1125 00701
63	53	5	62.7		KR 1063 00701*	125	104	10.5	124.5		KR 2125 00701
65	49.5	6.3	64.7		KR 2065 00701*	125	109.5	6.3	124.6	•	KR 0125 00701
65	52	6.3	64.6		KR 0065 00701	140	119	8.1	139.5		KR 2140 00701
65	54	6.3	64.6		KR 1065 00701	140	119	10.5	139.5		KR 0140 00701*
70	54.5	6.3	69.6		KR 1070 00701	140	119	12.5	139.5		KR 1140 00701*
70	57	6.3	69.6		KR 2070 00701	150	129	10.5	149.5		KR 0150 00701*

1) ISO 7425-1

* Moulds not available on the date of printing.

Further sizes on request.



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D	d	L	D ₁	ISO ¹⁾	Order code
160	139	8.1	159.5	•	KR 0160 00701
180	159	8.1	179.5		KR 0180 00701*
200	175	12.5	199.5	•	KR 1200 00701*
200	179	8.1	199.5	•	KR 0200 00701

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