



### Max. Operating Conditions

Pressure (MPa)	≤ 45 (450 bar)
Temperature (°C)	- 40 / + 110
Speed (m/s)	≤ 0,5
Media:	Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids

### Recommended Surface Finish

Surface roughness	$R_a$	$R_t$
Groove bottom	≤ 1,6 μm	≤ 16 μm
Groove flanks	≤ 1,6 μm	≤ 16 μm
Running surface	≤ 0,3 μm	≤ 3 μm

### Material

Polyurethane	PU
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### Technical Description

The single-acting piston seal of the **KE2 /KDF** series is made of highly wear-resistant, hydrolysis-proof polyurethane.

The geometry of the single-acting piston seal is that of a traditional piston groove ring with shortened outer lip and an additional form-fitted guide ring.

The shape assures a rapid response of the groove ring even in the low pressure range.

The seal can be installed by simple snap-on mounting. The slotted guide ring is snapped into the designated groove.

Type designation	∅ D	∅ d	L	∅ d <sub>1</sub>	∅ d <sub>2</sub>	∅ d <sub>3</sub>	L <sub>1</sub>
KE2 - 32 - 20	32	20	9,0	28,50	31,4	25,0	6,35
KE2 - 35 - 22	35	22	10,0	31,40	33,5	25,0	6,35
KE2 - 40 - 25	40	25	9,5	35,40	39,4	30,0	6,35
KE2 - 40 - 26	40	26	9,5	35,40	39,4	30,0	6,35
KE2 - 40 - 30	40	30	9,5	35,40	39,4	35,0	6,35
KE2 - 45 - 30	45	30	10,0	40,40	44,4	35,0	6,35
KE2 - 45 - 35	45	35	9,5	40,40	44,4	39,0	6,35
KE2 - 50 - 30	50	30	14,5	44,30	49,4	35,0	6,35
KE2 - 50 - 35	50	35	11,0	45,35	49,4	40,0	6,35
KE2 - 50 - 40	50	40	11,0	45,40	49,4	44,0	6,35
KE2 - 55 - 40	55	40	11,0	50,35	54,4	45,0	6,35
KE2 - 60 - 40	60	40	14,5	55,40	59,4	45,0	6,35
KE2 - 60 - 40/1	60	40	14,5	54,20	59,4	45,0	6,35
KE2 - 60 - 45	60	45	11,0	55,40	59,4	50,0	6,35
KE2 - 60 - 45/1	60	45	11,0	58,40	59,4	50,0	6,35
KE2 - 63 - 45	63	45	11,0	58,40	62,4	50,0	6,35
KE2 - 65 - 50	65	50	11,0	60,40	64,4	55,0	6,35
KE2 - 70 - 50	70	50	14,5	64,20	69,4	55,0	6,35
KE2 - 80 - 60	80	60	13,0	74,15	79,4	65,0	6,35
KE2 - 80 - 60/1	80	60	14,5	74,15	79,4	65,0	6,35
KE2 - 90 - 70	90	70	13,0	84,15	89,4	75,0	6,35
KE2 - 90 - 70/1	90	70	14,5	84,15	89,4	75,0	6,35
KE2 - 100 - 80	100	80	14,5	93,15	99,4	85,0	6,35
KE2 - 100 - 80/1	100	80	14,5	94,15	99,4	85,0	6,35
KE2 - 110 - 95	110	95	13,0	103,10	109,4	100,0	6,35
KE2 - 120 - 100	120	100	14,5	113,10	119,4	105,0	6,35

Further dimension and in-between sizes upon request.

	Seal Type	Dimension	Material
<b>Ordering example:</b>	<b>Piston Seal</b>	<b>∅ D 80 x 60 x 13</b>	<b>Polyurethane</b>
<b>Order designation:</b>	<b>KE2 -</b>	<b>80 x 60 x 13,0</b>	<b>- PU</b>

**Designation of material:**      **PU - Polyurethane**