



Pressure MPa (bar)	16 (160)	25 (250)	40 (400)	60 (600)
max Gap (mm)	1,0	0,8	0,6	0,4

### Max. Operating Conditions

Pressure (MPa)	40 (400 bar) / 60 (600 bar)
Temperature (°C)	- 30 / + 110
Speed (m/s)	0,6 - 1,5
Media:	Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids

### Recommended Surface Finish

Surface roughness	$R_a$	$R_t$
Groove bottom	$\leq 1,6 \mu\text{m}$	$\leq 16 \mu\text{m}$
Groove flanks	$\leq 1,6 \mu\text{m}$	$\leq 16 \mu\text{m}$
Running surface	$\leq 0,3 \mu\text{m}$	$\leq 3 \mu\text{m}$

### Material

Static Seal	NBR
Dynamic seal	PB / PU
Back up ring	POM

### Technical Description

The piston seals of the types **KD6** and **KD8** are designed for one-piece piston-constructions and are applicable for high and low pressures in average as well as in difficult applications.

The seal kit consists of a self-lubricating PTFE-bronze- (KD8), or a Polyurethane-bearing (KD6), which is prestressed to a NBR-profile ring.

The back-up-rings of polyacetate, which are disposed on both sides of the seal, protect the bearing as well as the prefix-element from extrusion and soil.

Ever on choice, the compact piston seal is suitable for operation in difficult applications as construction machines or agricultural machines.

Type designation	∅ D	∅ d	L	∅ d <sub>1</sub>
KD6/KD8 - 40 - 30	40	30	8,0	39,3
KD6/KD8 - 50 - 36	50	36	9,0	49,3
KD6/KD8 - 50 - 40	50	40	8,0	49,3
KD6/KD8 - 55 - 41 **	55	41	9,0	54,3
KD6/KD8 - 60 - 46 **	60	46	9,0	59,3
KD6/KD8 - 60 - 50	60	50	8,0	59,3
KD6/KD8 - 63 - 48	63	48	11,0	62,3
KD6/KD8 - 63 - 53	63	53	8,0	62,3
KD6/KD8 - 65 - 50	65	50	11,0	64,3
KD6/KD8 - 70 - 55	70	55	11,0	69,3
KD6/KD8 - 70 - 60	70	60	8,0	69,3
KD6/KD8 - 75 - 60	75	60	11,0	74,3
KD6/KD8 - 80 - 65	80	65	11,0	79,0
KD6/KD8 - 80 - 65/1	80	65	12,5	79,0
KD6/KD8 - 85 - 70	85	70	11,0	84,0
KD6/KD8 - 90 - 75	90	75	11,0	89,0
KD6/KD8 - 90 - 75/1	90	75	12,5	89,0
KD6/KD8 - 95 - 80	95	80	11,0	94,0
KD6/KD8 - 100 - 85	100	85	12,5	99,0
KD6/KD8 - 105 - 90	105	90	12,5	104,0
KD6/KD8 - 110 - 95	110	95	12,5	109,0
KD6/KD8 - 115 - 100	115	100	12,5	114,0
KD6/KD8 - 120 - 105	120	105	12,5	119,0
KD6/KD8 - 125 - 102	125	102	16,0	124,0
KD6/KD8 - 125 - 110	125	110	12,5	124,0
KD6/KD8 - 130 - 107	130	107	16,0	129,0
KD6/KD8 - 130 - 115	130	115	12,5	129,0
KD6/KD8 - 135 - 112	135	112	16,0	134,0
KD6/KD8 - 140 - 117	140	117	16,0	139,0
KD6/KD8 - 140 - 125	140	125	12,5	139,0

Piston seal Type

Dimension

Material

**Ordering example:**      **Piston seal**      **∅ D 80 x 65 x 11,0**      **PTFE-bronze**
**Order designation:**      **KD8 -**      **80 x 65 x 11,0**      **- PB**
**Designation of material:**      **PB** - PTFE-bronze  
    **PU** - Polyurethane

Type designation	∅ D	∅ d	L	∅ d <sub>1</sub>
KD6/KD8 - 145 - 122	145	122	16,0	144,0
KD6/KD8 - 150 - 127	150	127	16,0	149,0
KD6/KD8 - 150 - 135	150	135	12,5	149,0
KD6/KD8 - 160 - 137	160	137	16,0	159,0
KD6/KD8 - 160 - 145 **	160	145	12,5	159,0
KD6/KD8 - 165 - 142	165	142	16,0	164,0
KD6/KD8 - 170 - 147 **	170	147	16,0	169,0
KD6/KD8 - 170 - 155	170	155	16,0	169,0
KD6/KD8 - 180 - 157	180	157	16,0	179,0
KD6/KD8 - 180 - 165	180	165	12,5	179,0
KD6/KD8 - 185 - 162	185	162	16,0	184,0
KD6/KD8 - 190 - 167 **	190	167	16,0	189,0
KD6/KD8 - 190 - 175 **	190	175	12,5	189,0
KD6/KD8 - 200 - 177	200	177	16,0	198,8
KD6/KD8 - 200 - 180	200	180	16,0	198,8
KD6/KD8 - 220 - 200 **	220	200	16,0	218,8
KD6/KD8 - 225 - 202	225	202	16,0	223,8
KD6/KD8 - 230 - 210 **	230	210	16,0	223,8
KD6/KD8 - 250 - 230	250	230	16,0	248,8

Further dimension and in-between sizes upon request.

\*\* These sizes are available upon request only.