



Max. Operating Conditions	
Pressure (MPa)	≤ 70 (700 bar)
Temperature (°C)	- 30 / + 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	
NBR	N

Technical Description

The double-acting piston seal **KD2** consists of a NBR sealing element, two Hytrel® supporting elements and two integrated angular guide rings made of cored polyamide.

The design and structural shape of the double-acting piston seal allows for the use in medium and heavy hydraulic operating conditions. The voluminosly designed sealing element is characterised by its low compression set and high tensile strength. The design of the profile provides for optimum sealing on the dynamic and static side as well as for a favourable frictional behaviour.

Secure sealing is also given upon operation by shocks, axially and radially occurring oscillations and rapid pressure alternation.

The piston seal type **KD2** is appropriate for the installation on split and one piece pistons.

Type designation	∅ D	∅ d	L	∅ d ₁	∅ d ₂	H
KD2 - 45 - 29 **	45	29	32	38,80	42,85	6,35
KD2 - 50 - 34 **	50	34	32	43,77	47,85	6,35
KD2 - 55 - 40	55	40	32	48,77	52,85	6,35
KD2 - 60 - 44 **	60	44	32	53,80	57,80	6,35
KD2 - 63 - 47 **	63	47	32	56,74	60,81	6,35
KD2 - 65 - 49 **	65	49	32	58,70	62,80	6,35
KD2 - 70 - 50	70	50	35	62,62	67,54	9,52
KD2 - 75 - 55	75	55	35	67,70	72,54	9,52
KD2 - 80 - 60	80	60	35	72,62	77,52	9,52
KD2 - 80 - 64 **	80	64	32	72,62	77,52	9,52
KD2 - 85 - 65	85	65	35	77,62	82,54	9,52
KD2 - 90 - 70	90	70	35	82,58	87,79	9,52
KD2 - 90 - 74 **	90	74	32	82,87	87,79	9,52
KD2 - 95 - 75 **	95	75	35	87,60	92,50	9,52
KD2 - 100 - 80	100	80	35	92,60	97,50	9,52
KD2 - 110 - 85	110	85	45	101,82	107,33	12,70
KD2 - 110 - 90	110	90	35	102,70	107,51	9,52
KD2 - 115 - 90	115	90	45	106,82	112,33	12,70
KD2 - 120 - 95	120	95	45	111,82	117,33	12,70
KD2 - 120 - 100	120	100	35	112,80	117,51	9,52
KD2 - 125 - 100	125	100	45	116,82	122,33	12,70
KD2 - 130 - 105	130	105	45	121,82	127,33	12,70
KD2 - 130 - 110	130	110	35	122,70	127,33	9,52
KD2 - 135 - 110	135	110	45	126,82	132,33	12,70
KD2 - 140 - 115	140	115	45	131,72	137,30	12,70
KD2 - 140 - 120	140	120	35	132,70	137,30	9,52
KD2 - 145 - 120 **	145	120	45	136,72	142,30	12,70
KD2 - 150 - 125	150	125	45	141,72	147,30	12,70
KD2 - 160 - 135	160	135	45	151,72	157,10	12,70
KD2 - 170 - 140	170	140	45	163,00	167,87	12,70

Piston seal Type

Dimension

Material

Ordering example:

Piston seal

∅ D 80 x 60 x 35

NBR

Order designation:

KD2 -

80 x 60 x 35

- N

Designation of material:

N - NBR

Type designation	∅ D	∅ d	L	∅ d ₁	∅ d ₂	H
KD2 - 180 - 155	180	155	45	171,60	177,10	12,70
KD2 - 185 - 160 **	185	160	45	176,72	182,10	12,70
KD2 - 190 - 165	190	165	45	181,72	187,10	12,70
KD2 - 200 - 175	200	175	45	191,72	197,10	12,70
KD2 - 210 - 185	210	185	45	201,60	207,10	12,70
KD2 - 220 - 195	220	195	45	211,60	217,10	12,70
KD2 - 230 - 205	230	205	45	221,72	227,10	12,70
KD2 - 240 - 215	240	215	45	231,72	237,10	12,70
KD2 - 250 - 225	250	225	45	241,72	247,10	12,70
KD2 - 260 - 235	260	235	45	251,72	257,10	12,70
KD2 - 270 - 245	270	245	45	261,72	267,10	12,70
KD2 - 280 - 255	280	255	45	271,72	277,10	12,70
KD2 - 290 - 265 **	290	265	45	281,72	287,10	12,70
KD2 - 300 - 275	300	275	45	291,72	297,10	12,70
KD2 - 350 - 325	350	325	45	341,72	347,10	12,70
KD2 - 360 - 335	360	335	44,5	351,72	357,33	12,70
KD2 - 380 - 355	380	355	45	371,75	377,33	12,70

Further dimension and in-between sizes upon request.

** These sizes are available upon request only.