



Max. Operating Conditions	
Pressure (MPa)	≤ 50 (500 bar)
Temperature (°C)	- 30 / + 110
Speed (m/s)	$\leq 0,5$
Media: Hydraulic fluids upon oil-basis, hardly inflaming hydraulic fluids, HFA-, HFB-Liquids	

Recommended Surface Finish		
Surface roughness	R_a	R_t
Groove bottom	$\leq 1,6 \mu\text{m}$	$\leq 16 \mu\text{m}$
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	
NBR-Fabric	N

Technical Description

The double-acting piston seal **KD3** consists of a NBR sealing element with moulded fabric reinforcement, as well as two integrated angular guide rings made of polyacetal.

The design and structural shape of the double-acting piston seal allows for use in medium and heavy hydraulic operating conditions.

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

The piston seal type **KD3** is appropriate for the installation on split pistons.

Type designation	∅ D	∅ d	L	∅ d ₁	∅ d ₂	H
KD3 - 30 - 17	30	17	15,4	26,50	29,00	6,35
KD3 - 35 - 22	35	22	15,4	31,40	33,70	6,35
KD3 - 40 - 24	40	24	18,4	35,40	38,70	6,35
KD3 - 45 - 29	45	29	18,4	40,40	43,70	6,35
KD3 - 50 - 30	50	30	25,4	44,30	48,30	6,35
KD3 - 50 - 34	50	34	18,4	45,40	48,70	6,35
KD3 - 55 - 39	55	39	18,4	50,40	53,70	6,35
KD3 - 60 - 44	60	44	18,5	55,40	58,70	6,35
KD3 - 60 - 44/1	60	44	20,0	55,40	58,70	6,35
KD3 - 63 - 47	63	47	19,4	58,40	61,65	6,35
KD3 - 65 - 50	65	50	18,4	60,40	63,70	6,35
KD3 - 70 - 50	70	50	22,4	64,20	68,30	6,35
KD3 - 75 - 55	75	55	22,4	69,20	73,30	6,35
KD3 - 75 - 56	75	56	24,4	69,20	73,30	6,35
KD3 - 80 - 60	80	60	22,4	74,20	78,30	6,35
KD3 - 83 - 63	83	63	22,4	76,16	81,30	6,35
KD3 - 85 - 65	85	65	22,4	79,20	83,35	6,35
KD3 - 90 - 70	90	70	22,4	84,15	88,30	6,35
KD3 - 95 - 75	95	75	22,4	89,15	93,30	6,35
KD3 - 100 - 75	100	75	22,4	93,15	98,05	6,35
KD3 - 100 - 80	100	80	25,4	94,15	98,31	6,35
KD3 - 105 - 80	105	80	22,4	98,10	103,00	6,35
KD3 - 110 - 85	110	85	25,4	103,10	108,00	6,35
KD3 - 110 - 85/1	110	85	22,4	103,10	108,00	6,35
KD3 - 110 - 90	110	90	25,4	104,15	108,30	6,35
KD3 - 115 - 90	115	90	22,4	108,10	113,00	6,35
KD3 - 120 - 95	120	95	22,4	113,10	118,00	6,35
KD3 - 120 - 100	120	100	25,4	114,10	118,30	6,35

Piston seal Type

Dimension

Material

Ordering example:
Piston seal
∅ D 80 x 60 x 22,4
NBR-Fabric
Order designation:
KD3 -
80 x 60 x 22,4
- N
Designation of material:
N - NBR-Fabric

Type designation	∅ D	∅ d	L	∅ d ₁	∅ d ₂	H
KD3 - 125 - 100	125	100	25,4	118,10	123,00	6,35
KD3 - 125 - 100/1	125	100	32,4	118,10	123,00	6,35
KD3 - 125 - 105	125	105	25,4	119,15	123,00	6,35
KD3 - 130 - 105	130	105	25,4	123,10	128,00	6,35
KD3 - 135 - 110	135	110	25,4	128,10	133,00	6,35
KD3 - 140 - 115	140	115	25,4	133,00	138,00	6,35
KD3 - 140 - 120	140	120	25,4	134,10	138,30	6,35
KD3 - 145 - 120	145	120	25,4	138,30	142,95	6,35
KD3 - 150 - 120	150	120	38,4	143,00	148,00	6,35
KD3 - 150 - 125	150	125	25,4	143,00	148,00	6,35
KD3 - 155 - 130	155	130	25,4	148,00	153,00	6,35
KD3 - 160 - 130	160	130	25,4	153,00	157,90	6,35
KD3 - 170 - 140	170	140	25,4	162,95	167,87	6,35
KD3 - 180 - 150	180	150	35,4	172,95	177,87	6,35
KD3 - 180 - 160	180	160	31,4	172,95	177,87	6,35
KD3 - 190 - 160	190	160	35,4	182,93	187,87	6,35
KD3 - 200 - 170	200	170	35,4	192,96	197,84	6,35
KD3 - 210 - 180	210	180	32,4	202,72	207,87	6,35
KD3 - 220 - 190	220	190	35,4	212,70	217,90	6,35
KD3 - 250 - 220	250	220	35,4	242,90	247,86	6,35

Further dimension and in-between sizes upon request.