

K81 is a back-up ring designed to reduce the permissible sealing gap of the O-rings both for static and dynamic applications.

PRODUCT ADVANTAGES
- Able to work in high pressures
- Easy assembly
- Able to work in hard conditions
- Wide range of dimensions
- Used for rod and piston

APPLICATION
All types of hydraulic cylinders, injection moulding machines, mining equipment, marine hydraulics, loading platforms, cranes and heavy duty applications.

MATERIAL	CODE
TPE	TP5501

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-40°C +120°C	+5°C +60°C	-30°C +60°C
PRESSURE	≤500 Bar	≤500 Bar	≤500 Bar
SPEED	≤1.0 m/sec	≤1.0 m/sec	≤1.0 m/sec

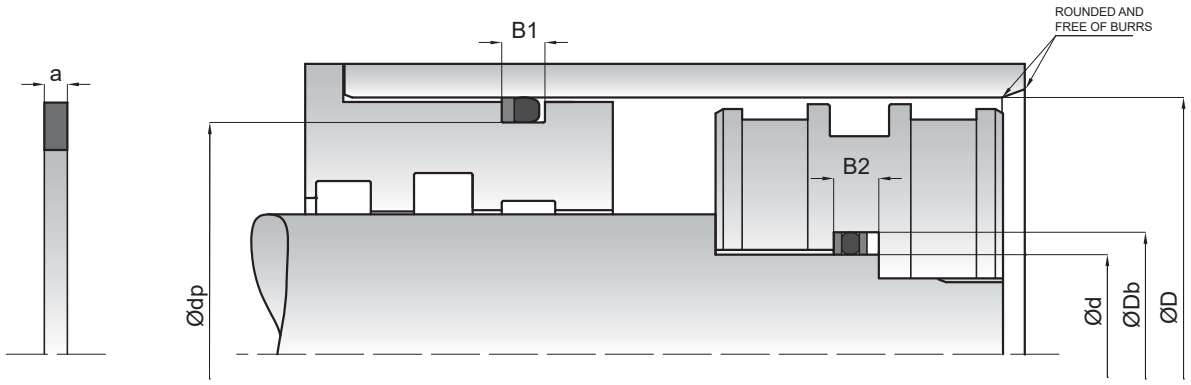
Note: The above data are maximum values and cannot be used at the same time.

SURFACE ROUGHNESS	Ra	Rmax
Sliding Surface	≤0.3 µm	≤3 µm
Groove Base	≤1.8 µm	≤10 µm
Groove Flanks	≤3 µm	≤16 µm

INSTALLATION
Easily assembled into the housing by hand. K81 back-up ring is in non split form. In case of a difficulty during installation the back-up ring can be cut carefully with 30° angle and assembled afterwards. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the back-up ring must be oiled with system oil.

NOTES
K81 back-up ring is safely used with 0.20 mm permissible sealing gap up to 500 bar. For special applications PTFE back-up ring is produced on special requests.

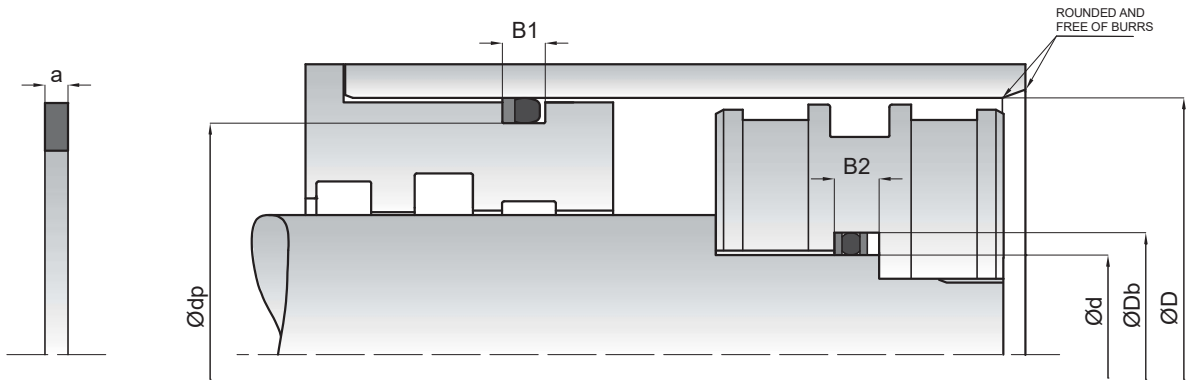
K81 BACK - UP RING



KASTAŞ NO	d (f7)/dp (h9)	Db (H9)/D (H8)	a	B1 (-0/+0.2)	B2 (-0/+0.2)	O-Ring d2
K81-014	14	18	1.3	4.7	6	2.62
K81-020	20	25	1.3	5.2	6.5	3
K81-025/1	25	30	1.3	5.2	6.5	3
K81-027	27	32	1.3	5.2	6.5	3
K81-035	35	40	1.3	5.2	6.5	3
K81-035/1	35.15	41	1.45	5.95	7.4	3.53
K81-036/1	36	40	1.8	5.2	7	2.62
K81-038	38	43	1.3	5.2	6.5	3
K81-040	40	45	1.3	5.2	6.5	3
K81-043	43	48	1.3	5.2	6.5	3
K81-045	45	50	1.3	5.2	6.5	3
K81-045/1	45.15	51	1.45	5.95	7.4	3.53
K81-049	49.3	55	1.3	5.8	7.1	3.53
K81-050	50	55	1.3	5.2	6.5	3
K81-050/2	50	60	1.7	9.1	10.8	5.7
K81-052	52	60	1.9	8.4	10.3	5
K81-053/1	53	63	1.7	9.1	10.8	5.7
K81-055	55	63	1.9	8.4	10.3	5
K81-055/2	55.15	61	1.45	5.95	7.4	3.53
K81-058	58	63	1.3	5.2	6.5	3
K81-060/1	60	70	1.7	9.1	10.8	5.7
K81-060/2	60	65	1.3	5.2	6.5	3
K81-062	62	70	1.9	8.4	10.3	5
K81-062/1	62.2	68	1.3	5.8	7.1	3.53
K81-062/2	62.15	71	1.7	8.6	10.3	5.33
K81-064	64	73.3	1.5	8.9	10.4	5.7
K81-065	65	70	1.3	5.2	6.5	3
K81-065/1	65	75	1.7	9.1	10.8	5.7
K81-070	70	75	1.3	5.2	6.5	3
K81-070/1	70	80	1.7	9.1	10.8	5.7
K81-072	72	80	1.9	8.4	10.3	5
K81-072/1	72.15	81	1.7	8.6	10.3	5.33
K81-075	75	80	1.3	5.2	6.5	3
K81-075/3	75	85	1.9	9.3	11.2	5.7
K81-079	79.8	89.1	1.5	8.9	10.4	5.7
K81-080	80	85	1.3	5.2	6.5	3
K81-082	82	90	1.9	8.4	10.3	5
K81-082/1	82.15	91	1.7	8.6	10.3	5.33
K81-084	84.3	90	1.3	5.8	7.1	3.53
K81-085	85	90	1.3	5.2	6.5	3
K81-090	90	95	1.3	5.2	6.5	3
K81-090/1	90	100	1.7	9.1	10.8	5.7
K81-092	92	100	1.9	8.4	10.3	5
K81-100	100	110	1.7	9.1	10.8	5.7
K81-100/1	100	108.2	1.9	8.4	10.3	5
K81-100/2	100.6	110	1.7	9.1	10.8	5.7
K81-102	102	110	1.9	8.4	10.3	5
K81-105	105	110	1.3	5.2	6.5	3
K81-107	107	115	1.9	8.4	10.3	5

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K81 BACK - UP RING



KASTAŞ NO	d (f7)/dp (h9)	Db (H9)/D (H8)	a	B1 (-0/+0.2)	B2 (-0/+0.2)	O-Ring d2
K81-109	109	118.3	1.9	9.27	11.14	5.7
K81-110	110	115	1.3	5.2	6.5	3
K81-110/1	110	120	1.7	9.1	10.8	5.7
K81-110/2	110	120	1.9	9.3	11.2	5.7
K81-112	112	120	1.9	8.4	10.3	5
K81-115	115	125	1.7	9.1	10.8	5.7
K81-115/1	115	124.3	1.5	8.9	10.4	5.7
K81-115/2	115	125	1.9	9.3	11.2	5.7
K81-117	117	125	1.9	8.4	10.3	5
K81-118	118.2	127.5	1.5	8.9	10.4	5.7
K81-120	120	125	1.3	5.2	6.5	3
K81-120/1	120	130	1.7	9.1	10.8	5.7
K81-122	122	130	1.9	8.4	10.3	5
K81-125	125	135	1.9	9.3	11.2	5.7
K81-130	130	140	1.7	9.1	10.8	5.7
K81-130/1	130.7	140	1.9	9.3	11.2	5.7
K81-138	138.4	150	2.5	11.6	14.1	6.99
K81-140	140	150	1.7	9.1	10.8	5.7
K81-145	145	160	2.1	13	15.1	8.4
K81-150	150.7	160	1.9	9.3	11.2	5.7
K81-150/1	150	160	1.7	9.1	10.8	5.7
K81-151	151	160	1.9	8.8	10.7	5.33
K81-153	153.3	165	2	11.1	13.1	6.99
K81-155	155	170	2.1	13	15.1	8.4
K81-155/1	155	165	1.7	9.1	10.8	5.7
K81-155/2	155	165	1.9	9.3	11.2	5.7
K81-158	158.4	170	2.5	11.6	14.1	6.99
K81-161	161.8	170	1.9	8.4	10.3	5
K81-165	165	180	2.1	13	15.1	8.4
K81-170	170.7	180	1.9	9.3	11.2	5.7
K81-175	175	190	2.1	13	15.1	8.4
K81-181	181.8	190	1.9	8.4	10.3	5
K81-185	185	200	2.1	13	15.1	8.4
K81-188	188.4	200	2.5	11.6	14.1	6.99
K81-190	190.7	200	1.9	9.3	11.2	5.7
K81-192	192.6	202	1.9	9.3	11.2	5.7
K81-198	198.4	210	2.5	11.6	14.1	6.99
K81-201	201.8	210	1.9	8.4	10.3	5
K81-205	205.7	215	1.9	9.3	11.2	5.7
K81-210	210.7	220	1.9	9.3	11.2	5.7
K81-216	216.6	225.8	1.9	8.8	10.7	5.33
K81-220	220.7	230	1.9	9.3	11.2	5.7
K81-220/1	220.3	232	2	11.1	13.1	6.99
K81-225	225	240	2.1	13	15.1	8.4
K81-228	228.4	240	2.5	11.6	14.1	6.99
K81-235	235	250	2.1	13	15.1	8.4
K81-240	240.7	250	1.9	9.3	11.2	5.7
K81-241	241.8	250	1.9	8.4	10.3	5
K81-245	245	260	2.1	13	15.1	8.4

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K81-245/1	245.7	255	1.9	9.3	11.2	5.7
K81-260	260.7	270	1.9	9.3	11.2	5.7
K81-290	290.7	300	1.9	9.3	11.2	5.7
K81-295	295.7	305	1.9	9.3	11.2	5.7

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