

K31 is a three piece single acting sealing set which consist of one elastomeric main sealing element with additional sealing lip, one special profile elastomer nitrile rubber that goes into the main sealing component and one thermoplastic back-up ring.

PRODUCT ADVANTAGES

- Able to work in high pressures
- Superior sealing effect in low pressures
- Easy assembly into closed grooves
- Superior sealing effect with the secondary lip
- Secondary sealing lip provides extra protection against the ingress of dirt particles.
- Highly wear resistant
- Improved sealing gap due to the active back-up ring

APPLICATION

Mining equipment, iron and steel industry, metal injection machines, scrap cutters, marine hydraulics, cranes and mobile hydraulics.

MATERIAL		CODE
NBR	70 SHORE A	NB7001
PU	94 SHORE A	PU9401
POM		PM9901

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +100°C	+5°C +50°C	-30°C +40°C
PRESSURE	≤630 Bar	≤630 Bar	≤630 Bar
SPEED	≤0.5 m/sec	≤0.5 m/sec	≤0.5 m/sec

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

SURFACE ROUGHNESS		Ra	Rmax
Sliding Surface	Ød	≤0.4 µm	≤3.2 µm
Groove Base	ØD	≤1.6 µm	≤10 µm
Groove Flanks	B	≤3.2 µm	≤16 µm

Note: It is recommended to have 50% to 90% of the working surface material contact area value

INSTALLATION

Easily assembled into closed grooves according to the minimum diameter values that are given in the below table. Open grooves or special assembly tools should be used for the values that are outside this table. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the rod seal must be oiled with system oil.

MINUMUM DIAMETER VALUES FOR CLOSED TYPE OF GROOVES				
(D-d)/2 (mm)	≤7.5	10	12.5	15
d min (mm)	50	80	100	105

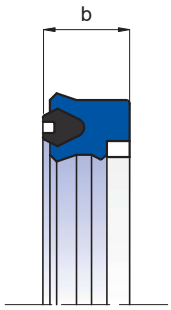
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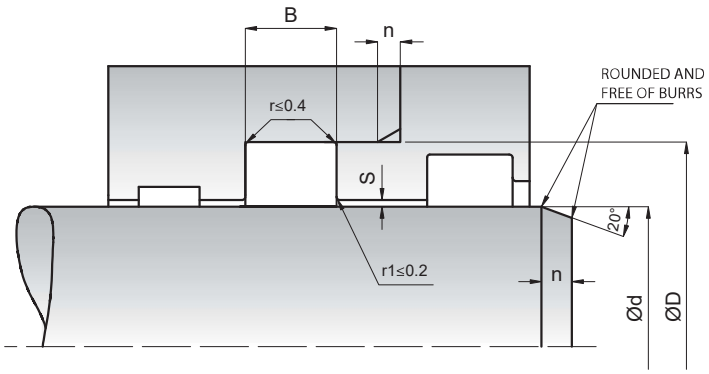
K31 can be used in all type of cylinders safely due to the reason of perfect adaptation to the pressure changes.

PERMISSIBLE SEALING GAP	
Pressure (Bar)	**Smax (mm)**
150	1.0
250	0.8
400	0.6
630	0.4

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is quite important to use the S value lower than the above indicated numbers.

K31 HEAVY DUTY ROD SEAL

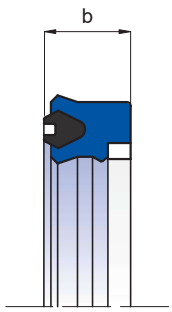


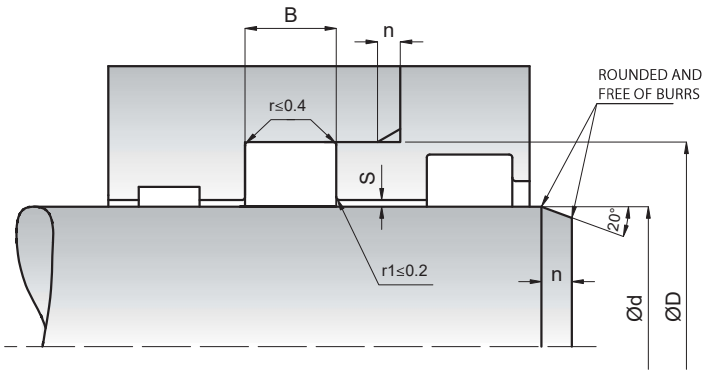


KASTAŞ NO	d (f8)	D(H11)	B(-0/+0,2)	b	n
K31-025 PU	25	35	8.3	7.3	4
K31-030 PU	30	40	11	10	4
K31-031 PU	31.75	38.1	7.35	6.35	3
K31-035 PU	35	50	10.5	9.5	5
K31-038 PU	38.1	47.625	7.35	6.35	5
K31-040 PU	40	55	10.5	9.5	5
K31-040/1 PU	40	50	8.3	7.3	4
K31-040/2 PU	40	55	12.4	11.4	5
K31-044 PU	44.45	57.15	10.52	9.52	4.5
K31-045 PU	45	60	12.4	11.4	5
K31-050 PU	50	65	12.4	11.4	5
K31-050/3 PU	50	60	8.3	7.3	4
K31-050/1 PU	50.8	60.32	10.52	9.52	4
K31-050/2 PU	50.8	63.5	10.52	9.52	4.5
K31-055 PU	55	70	12.4	11.4	5
K31-055/1 PU	55	68	14	13	4.5
K31-057 PU	57.15	69.85	10.52	9.52	4.5
K31-060 PU	60	75	12.4	11.4	5
K31-060/1 PU	60	73	14	13	4.5
K31-063 PU	63.5	76.2	10.52	9.52	4.5
K31-065 PU	65	78	11	10	4.5
K31-065/1 PU	65	80	10	9	5
K31-069 PU	69.85	82.55	10.52	9.52	4.5
K31-070 PU	70	85	12.4	11.4	5
K31-070/1 PU	70	83	11	10	4.5
K31-070/2 PU	70	85	10	9	5
K31-070/3 PU	70	80	13	12	4
K31-070/4 PU	70	85	11	10	5
K31-075 PU	75	88	11	10	4.5
K31-075/1 PU	75	90	10	9	5
K31-076/2 PU	76.2	88.9	10.52	9.52	4.5
K31-076 PU	76.2	92.7	13.7	12.7	5.5
K31-080 PU	80	95	12.4	11.4	5
K31-080/1 PU	80	93	11	10	4.5
K31-080/2 PU	80	95	10	9	5
K31-082 PU	82.55	95.25	10.52	9.52	4.5
K31-085 PU	85	100	11	10	5
K31-085/1 PU	85	105	16	15	6
K31-088 PU	88.9	101.6	10.52	9.52	4.5
K31-088/1 PU	88.9	104.77	13.7	12.7	5.5
K31-090 PU	90	105	12.4	11.4	5
K31-090/1 PU	90	105	11	10	5
K31-090/2 PU	90	110	18	17	6
K31-090/4 PU	90	100	13	12	4
K31-090/3 PU	90	110	15.5	14.5	6
K31-095 PU	95	110	11	10	5
K31-095/1 PU	95	115	16	15	6
K31-100 PU	100	120	15.5	14.5	6
K31-100/1 PU	100	115	11	10	5

Please contact our customer service for the dimensions out of our stock list.

K31 HEAVY DUTY ROD SEAL





KASTAŞ NO	d (f8)	D(H11)	B(-0/+0,2)	b	n
K31-101 PU	101.6	114.3	15.28	14.28	4.5
K31-101/1PU	101.6	117.47	15.27	14.27	5.5
K31-105 PU	105	120	13	12	5
K31-110 PU	110	130	13	12	6
K31-110/1 PU	110	125	13	12	5
K31-110/2 PU	110	130	15.5	14.5	6
K31-114 PU	114.3	127	15.28	14.28	4.5
K31-114/1 PU	114.3	133.35	16.87	15.87	6
K31-115 PU	115	135	15.5	14.5	6
K31-120 PU	120	140	13	12	6
K31-125 PU	125	145	15.5	14.5	6
K31-127 PU	127	146.05	16.87	15.87	6
K31-130 PU	130	150	15.5	14.5	6
K31-139 PU	139.7	152.4	15.28	14.28	4.5
K31-140 PU	140	160	15.5	14.5	6
K31-150 PU	150	160	15.5	14.5	4
K31-150/1 PU	150	170	15.5	14.5	6
K31-152 PU	152	171	16.9	15.87	6

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