

K40 is a two piece single acting piston seal which consists of asymmetrical profile with pressure relieving grooves and a thermoplastic back-up ring.

PRODUCT ADVANTAGES
- Superior static and dynamic sealing effect
- Improved sealing gap thanks to the active back-up ring
- Relief grooves against dynamic pressure
- Easy assembly into the closed groove
- Simple groove design
- High wear resistant

APPLICATION
Heavy duty cylinders, scrap cutters and hydraulic jacks.

MATERIAL		CODE
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	≤400 Bar	≤400 Bar	≤400 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	≤4.0 µm	≤16 µm

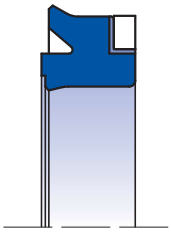
Note: It is recommended to have 50% to 90% of the working surface material contact area value.

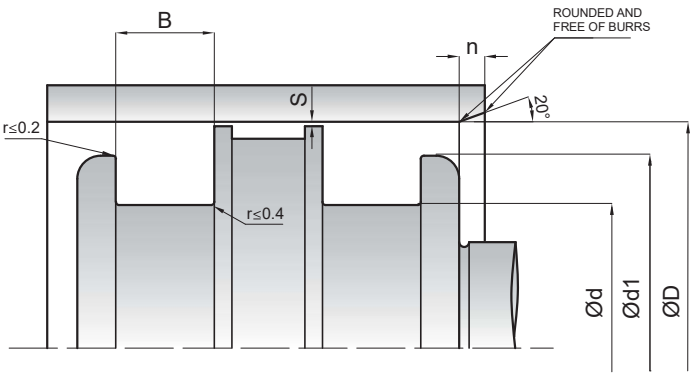
INSTALLATION
Easily assembled into one piece piston. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation all individual parts of the seal must be oiled with system oil.

NOTES
The permissible sealing gap values of K40 piston seal is given in the below table.

PERMISSIBLE SEALING GAP	
Pressure (Bar)	**Smax (mm)**
100	1.0
150	0.8
250	0.7
400	0.6

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





KASTAŞ NO	D (H8)	d (h11)	B (-0/+0.2)	d1 min.	n
K40-014 PU	14	8	6	10	2
K40-036 PU	36	27	6	32	3
K40-040 PU	40	25	11	35	4
K40-045 PU	45	30	11	40	4
K40-045/1 PU	45	30	9.5	40	4
K40-050 PU	50	35	11	45	4
K40-050/1 PU	50	35	9.5	45	4
K40-055 PU	55	40	11	50	4
K40-055/1 PU	55	40	9.5	50	4
K40-060 PU	60	45	11	55	4
K40-060/1 PU	60	45	9.5	55	4
K40-063 PU	63	48	10	58	4
K40-065 PU	65	50	11	60	4
K40-070 PU	70	50	13	64	5
K40-075 PU	75	55	13	69	5
K40-080 PU	80	60	13	74	5
K40-080/1 PU	80	60	12.5	74	5
K40-090 PU	90	70	13	84	5
K40-100 PU	100	80	13	94	5
K40-110 PU	110	90	13	104	5
K40-125 PU	125	100	16.2	119	6.5
K40-140 PU	140	115	16.2	134	6.5
K40-150 PU	150	120	19	144	8

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