



K95 is a single acting piston - rod seal and designed to have symmetrical lips in order to be used both for rod and piston applications.

PRODUCT ADVANTAGES

- Superior static and dynamic sealing effect
- Wide range of dimensions
- Easy assembly into closed grooves
- Although designed for hydraulic cylinders, it is used in special pneumatic cylinders as well
- Simple groove design
- Economical sealing solution

APPLICATION

Fork-lift trucks, injection moulding machines, agricultural machinery, and standard cylinders.

MATERIAL		CODE
NBR	90 SHORE A	NB9001

OPERATING CONDITIONS			
MEDIUM	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +105°C	+5°C +60°C	-30°C +60°C
PRESSURE	≤150 Bar	≤150 Bar	≤150 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	$\varnothing D - \varnothing d$	≤0.4 μm	≤3.2 μm
Groove Base	$\varnothing dp - \varnothing Db$	≤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. Before installation the sealing element must be oiled with system oil.

MINIMUM DIAMETER VALUES FOR CLOSED TYPE OF GROOVES

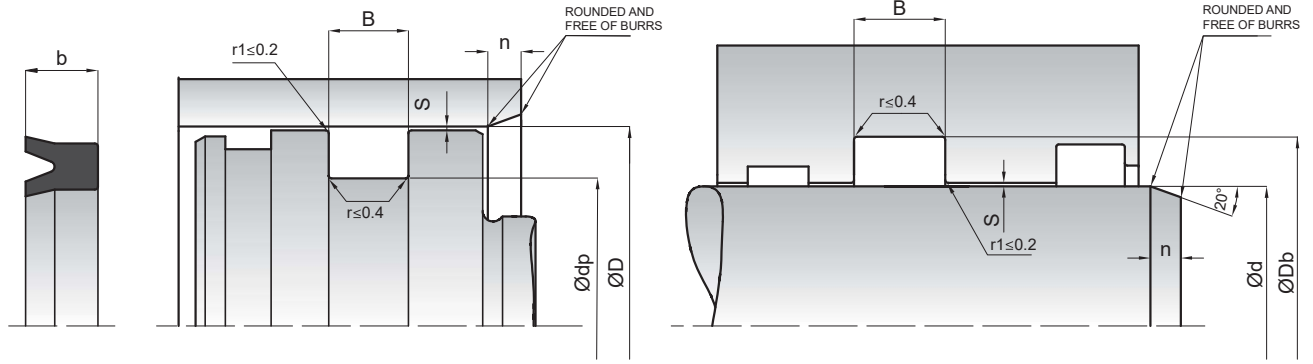
$(D-d)/2$ (mm)	4	5	6	7.7	10	12.5	15
d min (mm)	25	30	40	50	80	100	105

NOTES

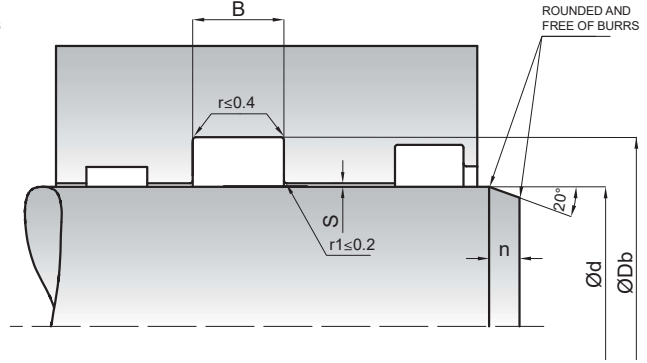
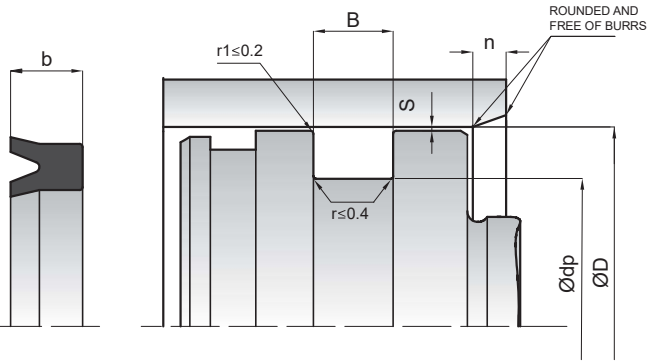
For special applications that require high temperatures, K95 can be produced in FKM material. The permissible sealing gap values of K95 piston - rod seal is given in the below table.

PERMISSIBLE SEALING GAP			
$t=(D-d)/2$	Smax (mm)		
	50 bar	100 bar	150 bar
$t \leq 5$	0.40	0.20	0.10
$t > 5$	0.45	0.25	0.15

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.



KASTAŞ NO	d (f7)/dp (h11)	Db (H11)/D (H11)	b	B (-0/+0.2)	n
K95-004	4	10	4	4.5	3
K95-006	6	12	4	4.5	3
K95-006/1	6	15	5	6	4
K95-006/3	6	16	6	7	4.5
K95-007	7	15	5	6	4
K95-007/1	7.94	12.7	3.5	4	2
K95-008	8	14	4	4.5	3
K95-008/1	8	14.2	3.5	4	3
K95-008/2	8	16	3.5	4	4
K95-008/3	8	16	4.2	4.7	4
K95-008/4	8	12	4	4.5	2
K95-010	10	14	2	2.5	2
K95-010/1	10	16	4	4.5	3
K95-010/3	10	18	5	6	4
K95-010/4	10	22	6	7	5
K95-010/5	10	19	3.5	4	4
K95-010/6	10	20	3.5	4	4.5
K95-010/7	10	23	4.5	5	5
K95-012	12	18	4	4.5	3
K95-012/1	12	20	5.5	6.5	4
K95-012/3	12	22	5	6	4.5
K95-012/4	12	24	6	7	5
K95-012/7	12.5	20.3	3.5	4	4
K95-012/6	12.5	20	4.5	5	4
K95-012/5	12.5	23	3.5	4	4.5
K95-014	14	20	4	4.5	3
K95-014/1	14	20	4.8	5.3	3
K95-014/2	14	25	3.5	4	4.5
K95-015	15	22	4	4.5	3
K95-015/1	15	24	7	8	4
K95-015/2	15	25	6	7	4.5
K95-016	16	22	4	4.5	3
K95-016/1	16	22	6	7	3
K95-016/2	16	25	5	6	4
K95-016/3	16	26	5	6	4.5
K95-018	18	26	4	4.5	4
K95-018/1	18	24	4	4.5	3
K95-018/2	18	25	4	4.5	3
K95-020	20	28	4	4.5	4
K95-020/1	20	28	8	9	4
K95-020/3	20	30	8	9	4.5
K95-020/5	20	35	10	11	5.5
K95-020/6	20	32	7.5	8.5	5
K95-022	22	30	6	7	4
K95-022/1	22	35	7	8	5
K95-022/2	22	32	5	6	4.5
K95-022/3	22	28	5	6	3
K95-024	24	30	5	6	3
K95-024/1	24	32	4	4.5	4



KASTAŞ NO	d (f7)/dp (h11)	Db (H11)/D (H11)	b	B (-0/+0.2)	n
K95-024/2	24	34	5	6	4.5
K95-025	25	33	7	8	4
K95-025/1	25	40	6	7	5.5
K95-027	27	36	6	7	4
K95-028	28	38	5	6	4.5
K95-028/2	28	52	10	11	7
K95-029	29	35	6	7	3
K95-030	30	40	9	10	4.5
K95-030/1	30	45	10	11	5.5
K95-030/2	30	55	12	13	7
K95-032	32	42	8	9	4.5
K95-032/1	32	40	7	8	4
K95-032/2	32	48	8	9	5.5
K95-033	33	42	7	8	4
K95-035	35	45	5	6	4.5
K95-035/1	35	45	6	7	4.5
K95-040	40	50	5	6	4.5
K95-040/2	40	48	8	9	4
K95-040/1	40	60	10	11	7
K95-046	46	70	12	13	7
K95-048	48	60	6	7	5
K95-048/1	48	60	7	8	5
K95-050/1	50	75	12	13	7
K95-050	50	80	15	16	8
K95-055	55	70	10	11	5.5
K95-058	58	70	6	7	5
K95-060	60	100	20	21	10
K95-062	62	86	12	13	7
K95-064	64	80	8	9	5.5
K95-072	72	84	8	9	5
K95-072/1	72	84	6	7	5
K95-075	75	100	12	13	7
K95-075/1	75	90	7.5	8.5	5.5
K95-130	130	150	10	11	7
K95-135	135	150	10	11	5.5
K95-230	230	270	20	21	10
K95-290	290	330	20	21	10
