

K17 is a two piece double acting piston seal which consists of one special mixture PTFE profile ring and an o-ring as energizing element.

PRODUCT ADVANTAGES
- Low friction, free of stick-slip
- Simple groove design and low axial housing heights
- Long service life
- High sliding speed
- Wide range of temperature and chemicals depending on the o-ring material
- Minimum static and dynamic friction coefficient for a minimum energy loss and operating temperature
- Wide range of dimensions

APPLICATION
Injection moulding machines, fork-lift trucks, loading platforms, cranes, agricultural machinery and valves for hydraulic and pneumatic systems.

MATERIAL		CODE
NBR	70 SHORE A	NB7001
PTFE		PT6003

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +105°C	+5°C +60°C	-30°C +60°C
PRESSURE	≤400 Bar	≤400 Bar	≤400 Bar
SPEED	≤5.0 m/sec	≤5.0 m/sec	≤5.0 m/sec

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

SURFACE ROUGHNESS		Ra	Rmax
Sliding Surface	ØD	≤0.2 µm	≤2.0 µm
Groove Base	Ød	≤1.6 µm	≤6.3 µm
Groove Flanks	B	≤3.2 µm	≤15 µm

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

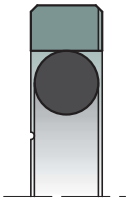
INSTALLATION
We recommend using special assembly tool (See section; Hydraulic Sealing Elements General Installation Information) and to have open groove design for dimensions that are smaller than Ø 40 mm. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing element must be oiled with system oil.

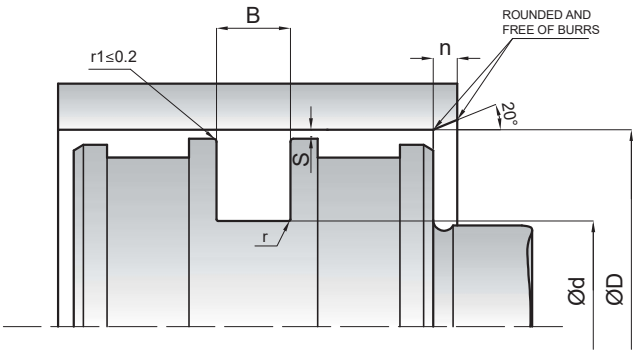
NOTES
It is recommended to use with minimum two piston guide rings in long stroke cylinders, minimum one guide ring in short stroke and under low radial loads. For special applications that require high temperatures or resistance to chemicals, piston seal is being manufactured with special mixture PTFE and FKM material.
The permissible sealing gap values of K17 piston seal is given in the below table.

PERMISSIBLE SEALING GAP			
B (mm)	**Smax (mm)**		
	150 Bar	250 Bar	400 Bar
2.2	0.3	0.20	0.15
3.2	0.4	0.25	0.15
4.2	0.4	0.25	0.20
6.3	0.5	0.30	0.20
8.1	0.6	0.35	0.25
9.5	0.7	0.50	0.30

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.

K17 PISTON SEAL

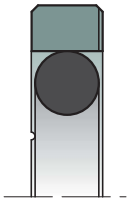


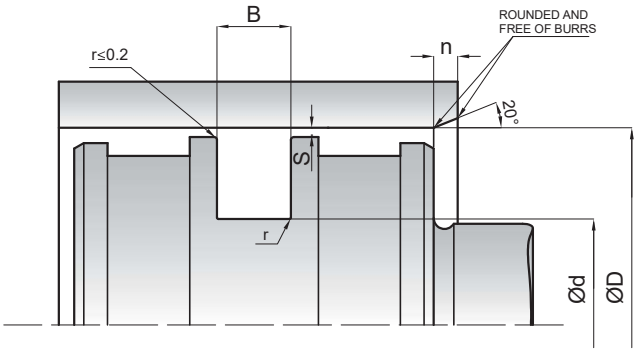


KASTAŞ NO	D (H8)	d (h9)	B (-0/+0.2)	r	n	O-Ring
K17 010-005.1	10	5.1	2.2	0.4	3	4.76x1.78
K17 012-007.1	12	7.1	2.2	0.4	3	6.75x1.78
K17 015-007.5	15	7.5	3.2	0.6	4.5	7.59x2.62
K17 016-008.5	16	8.5	3.2	0.6	4.5	7.59x2.62
K17 020-012.5	20	12.5	3.2	0.6	4.5	12.37x2.62
K17 025-014	25	14	4.2	1	6	13.87x3.53
K17 025-017.5	25	17.5	3.2	0.6	4.5	17.12x2.62
K17 032-021	32	21	4.2	1	6	20.22x3.53
K17 032-024.5	32	24.5	3.2	0.6	4.5	23.47x2.62
K17 035-030.1	35	30.1	2.2	0.4	3	29.87x1.78
K17 035-027.5	35	27.5	3.2	0.6	4.5	26.64x2.62
K17 040-032.5	40	32.5	3.2	0.6	6	31.42x2.62
K17 040-029	40	29	4.2	1	6	28.17x3.53
K17 040-024.5	40	24.5	6.3	1.3	8	23.17x5.33
K17 045-034	45	34	4.2	1	6	32.92x3.53
K17 048-037	48	37	4.2	1	6	36.10x3.53
K17 050-039	50	39	4.2	1	6	37.69x3.53
K17 055-044	55	44	4.2	1	6	44.04x3.53
K17 060-044.5	60	44.5	6.3	1.3	8	43.82x5.33
K17 060-049	60	49	4.2	1	6	47.22x3.53
K17 063-052	63	52	4.2	1	6	50.39x3.53
K17 063-047.5	63	47.5	6.3	1.3	8	47x5.33
K17 063-055.5	63	55.5	3.2	0.6	4.5	55.25x2.62
K17 065-049.5	65	49.5	6.3	1.3	8	48.50x5.33
K17 065-054	65	54	4.2	1	6	53.57x3.53
K17 068-057	68	57	4.2	1	6	56.74x3.53
K17 070-054.5	70	54.5	6.3	1.3	8	53.34x5.33
K17 070-059	70	59	4.2	1	6	56.74x3.53
K17 075-064	75	64	4.2	1	6	63.09x3.53
K17 075-059.5	75	59.5	6.3	1.3	8	56.52x5.33
K17 080-059	80	59	8.1	1.8	10.5	58x6.99
K17 080-064.5	80	64.5	6.3	1.3	8	62.87x5.33
K17 080-069	80	69	4.2	1	6	66.27x3.53
K17 085-064	85	64	8.1	1.8	10.5	63x7
K17 085-074	85	74	4.2	1	6	73.03x3.53
K17 085-069.5	85	69.5	6.3	1.3	8	69.22x5.33
K17 090-074.5	90	74.5	6.3	1.3	8	72.40x5.33
K17 090-069	90	69	8.1	1.8	10.5	68.20x6.99
K17 095-079.5	95	79.5	6.3	1.3	8	78.74x5.33
K17 100-079	100	79	8.1	1.8	10.5	77x7
K17 100-089	100	89	4.2	1	6	88.50x3.53
K17 100-084.5	100	84.5	6.3	1.3	8	81.92x5.33
K17 105-089.5	105	89.5	6.3	1.3	8	88.27x5.33
K17 110-089	110	89	8.1	1.8	10.5	88x6.99
K17 110-099	110	99	4.2	1	6	98.02x3.53
K17 110-094.5	110	94.5	6.3	1.3	8	91.44x5.33
K17 115-094	115	94	8.1	1.8	10.5	92x7
K17 115-099.5	115	99.5	6.3	1.3	8	97.79x5.33
K17 120-104.5	120	104.5	6.3	1.3	8	100.97x5.33

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

K17 PISTON SEAL





KASTAŞ NO	D (H8)	d (h9)	B (-0/+0.2)	r	n	O-Ring
K17 120-099	120	99	8.1	1.8	10.5	97x7
K17 125-104	125	104	8.1	1.8	10.5	102x7
K17 125-114	125	114	4.2	1	6	113.90x3.53
K17 125-109.5	125	109.5	6.3	1.3	8	107.32x5.33
K17 130-109	130	109	8.1	1.8	10.5	107x7
K17 130-114.5	130	114.5	6.3	1.3	8	113.67x5.33
K17 140-119	140	119	8.1	1.8	10.5	116.84x6.99
K17 140-124.5	140	124.5	6.3	1.3	8	123.19x5.33
K17 140-129	140	129	4.2	1	6	126.60x3.53
K17 145-124	145	124	8.1	1.8	10.5	123.19x6.99
K17 150-129	150	129	8.1	1.8	10.5	126.37x6.99
K17 155-134	155	134	8.1	1.8	10.5	132.72x6.99
K17 160-139	160	139	8.1	1.8	10.5	135.89x6.99
K17 165-144	165	144	8.1	1.8	10.5	142.24x6.99
K17 170-149	170	149	8.1	1.8	10.5	148.59x6.99
K17 180-159	180	159	8.1	1.8	10.5	158.12x6.99
K17 185-164	185	164	8.1	1.8	10.5	161.90x6.99
K17 185-169.5	185	169.5	6.3	1.3	8	164.47x5.33
K17 190-169	190	169	8.1	1.8	10.5	164.47x6.99
K17 195-174	195	174	8.1	1.8	10.5	170.82x6.99
K17 200-179	200	179	8.1	1.8	10.5	177.17x6.99
K17 200-184.5	200	184.5	6.3	1.3	8	183.52x5.33
K17 205-184	205	184	8.1	1.8	10.5	183.52x6.99
K17 210-189	210	189	8.1	1.8	10.5	183.52x6.99
K17 215-194	215	194	8.1	1.8	10.5	189.87x6.99
K17 220-199	220	199	8.1	1.8	10.5	196.22x6.99
K17 225-204	225	204	8.1	1.8	10.5	202.57x6.99
K17 230-209	230	209	8.1	1.8	10.5	202.57x6.99
K17 240-219	240	219	8.1	1.8	10.5	215.27x6.99
K17 245-224	245	224	8.1	1.8	10.5	221.62x6.99
K17 250-229	250	229	8.1	1.8	10.5	227.97x6.99
K17 260-239	260	239	8.1	1.8	10.5	234.32x6.99
K17 265-244	265	244	8.1	1.8	10.5	240.67x6.99
K17 270-249	270	249	8.1	1.8	10.5	240.67x6.99
K17 275-254	275	254	8.1	1.8	10.5	247.00x6.99
K17 280-259	280	259	8.1	1.8	10.5	253.57x6.99
K17 300-279	300	279	8.1	1.8	10.5	278.77x6.99
K17 305-284	305	284	8.1	1.8	10.5	278.77x6.99
K17 310-289	310	289	8.1	1.8	10.5	278.77x6.99
K17 315-294	315	294	8.1	1.8	10.5	291.47x6.99
K17 320-295.5	320	295.5	8.1	1.8	12	291.47x6.99
K17 320-299	320	299	8.1	1.8	10.5	291.47x6.99
K17 325-304	325	304	8.1	1.8	10.5	297.88x6.99
K17 330-305.5	330	305.5	8.1	1.8	12	304.17x6.99
K17 340-315.5	340	315.5	8.1	1.8	12	316.87x6.99
K17 350-325.5	350	325.5	8.1	1.8	12	316.87x6.99
K17 360-335.5	360	335.5	8.1	1.8	12	329.57x6.99
K17 370-345.5	370	345.5	8.1	1.8	12	342.27x6.99
K17 380-355.5	380	355.5	8.1	1.8	12	354.90x6.99

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

KASTAŞ NO	D (H8)	d (h9)	B (-0/+0.2)	r	n	O-Ring
K17 390-365.5	390	365.5	8.1	1.8	12	354.90x6.99
K17 400-375.5	400	375.5	8.1	1.8	12	367.67x6.99
K17 420-395.5	420	395.5	8.1	1.8	12	393.07x6.99
K17 430-405.5	430	405.5	8.1	1.8	12	405.26x6.99
K17 440-415.5	440	415.5	8.1	1.8	12	405.26x6.99
K17 450-425.5	450	425.5	8.1	1.8	12	417.96x6.99
K17 460-435.5	460	435.5	8.1	1.8	12	430.66x6.99
K17 470-445.5	470	445.5	8.1	1.8	12	443.36x6.99
K17 480-455.5	480	455.5	8.1	1.8	12	456.06x6.99
K17 500-475.5	500	475.5	8.1	1.8	12	468.76x6.99
K17 520-495.5	520	495.5	8.1	1.8	12	494.16x6.99
K17 530-505.5	530	505.5	8.1	1.8	12	494.16x6.99
K17 540-515.5	540	515.5	8.1	1.8	12	506.86x6.99
K17 550-525.5	550	525.5	8.1	1.8	12	506.86x6.99
K17 560-535.5	560	535.5	8.1	1.8	12	532.26x6.99
K17 580-555.5	580	555.5	8.1	1.8	12	532.26x6.99
K17 600-575.5	600	575.5	8.1	1.8	12	557.66x6.99

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