K16
Compact Piston Seal



K16 is a three-piece, double-acting compact piston seal consisting of a fabric-reinforced elastomer sealing element and two thermoplastic guide rings. It is designed to ensure reliable bidirectional sealing and high extrusion resistance in medium to heavy-duty hydraulic applications.

Advantages

- High extrusion resistance
- High abrasion resistance
- Good performance in harsh conditions

Application

- Mining industry
- Marine hydraulics
- Iron and steel industry
- Presses

Operating Condition

MOTION:	Linear		
PRESSURE (bar):	400 bar (max)		
SPEED (m/s):	0.5 m/s (max)		
TEMPERATURE (°C):	-30/+100 °C	+5/+60 °C	-30/+60 °C
MEDIA TYPE	Mineral Oils	HFA/HFB	HFC

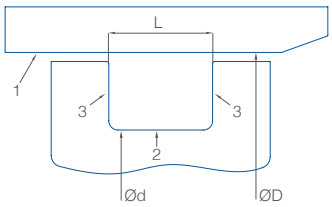
NOTE: The above values (speed, pressure, temperature) are maximum values, all cannot be used at the same time.

Material Information

Sealing Ring	Guide Ring	Remarks
Elastomer-NB8001 Fabric Elastomer-FB8001	Thermoplastic-PM9901	Standard produced material code
Elastomer-FK8001(FKM) Fabric Elastomer-FK8005	PTFE-PT6003	In high temperature applications, the sealing ring can be produced as FKM and the bearing can be produced from PTFE materials.

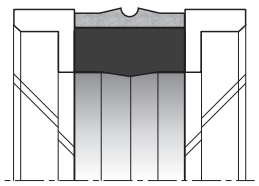
Note: In the special application conditions (temperature, media, etc.) Can be produced from different materials. Table 2.6 for details, you can refer to Table 2.7 and Table 2.8, or you can contact the sales department.

Surface Roughness



	1 (boru)	2 (groove base)	3 (groove flanks)
Ra	0.1-0.4 μm	0.2-1.6 μm	0.2-3.2 μm
Rmax	< 3.2 μm	< 6.3 μm	< 16 μm
Rmr	When C = 0.25xRz on the dynamic work surface and reference line C_{ref} = 5% , the working surface contact area should be approximately between 55% and 80%.		

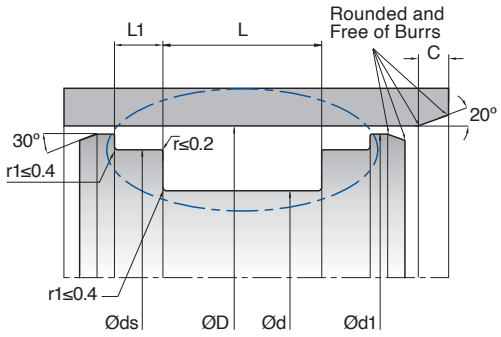
Installation Information



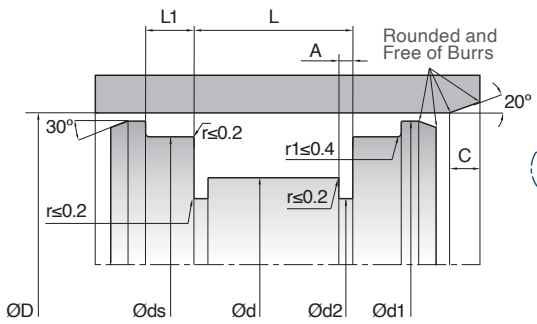
Recommended using piston seal installation tools. The seaking rings should be oiled by system oil or suitable greases. The guide ring housings should be machined according to the piston design shown at next page for lower than Ø50 mm. Installation on closed groove is available thanks to cut guide rings. (See Installation instructions - Page 51-57)

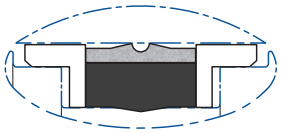
K16 Compact Piston Seal

D ≥ 50



D < 50





KASTAŞ NO	D (H10)	d (h11)	L (+0.2/-0)	ds (h8)	d1 (±0.1)	d2 (+0/-0.1)	A (+0.1/-0)	L1	C	KASTAŞ CODE
K16 025-017	25	17	13.5	21	24.4	14	2.1	3.2	4	10002482
K16 030-021	30	21	13.5	27	29.4	21	2.2	2.1	4	10002484
K16 030-022	30	22	13.5	26	29.4	19	2.1	3.2	4	10002485
K16 032-024	32	24	15.5	28	31.4	21	3.1	3.2	4	10002486
K16 035-027	35	27	15.5	31	34.4	24	3.1	3.2	4	10002487
K16 040-032	40	32	15.5	36	39.4	29	3.1	3.2	4	10002488
K16 045-037	45	37	15.5	41	44.4	34	3.1	3.2	4	10002490
K16 050-038	50	38	20.5	46	49.4	-	-	4.2	4	10002491
K16 060-048	60	48	20.5	56	59.4	-	-	4.2	4	10002493
K16 063-051	63	51	20.5	59	62.4	-	-	4.2	4	10002495
K16 065-053	65	53	20.5	61	64.4	-	-	4.85	4	10002497
K16 070-058	70	58	20.5	66	69.4	-	-	4.2	4	10002499
K16 075-063	75	63	20.5	71	74.4	-	-	4.2	4	10002501
K16 080-065	80	65	20	76	78.50	-	-	5	5	10002502
K16 080-066	80	66	22.5	76	79.4	-	-	5.2	4.5	10002504
K16 085-071	85	71	22.5	81	84.4	-	-	5.2	4.5	10002506
K16 090-076	90	76	22.5	86	89.4	-	-	5.2	4.5	10002508
K16 095-081	95	81	22.5	91	94.4	-	-	5.2	4.5	10002509
K16 100-086	100	86	22.5	96	99.4	-	-	5.2	4.5	10002510
K16 110-096	110	96	22.5	106	109.4	-	-	5.2	4.5	10002512
K16 115-101	115	101	22.5	111	114.4	-	-	5.2	4.5	10002514
K16 120-106	120	106	22.5	116	119.4	-	-	5.2	4.5	10002515
K16 125-103	125	103	26.5	121	124.4	-	-	5.2	6	10002517
K16 125-108	125	108	26.5	121	124.4	-	-	7.2	5	10002518
K16 140-123	140	123	26.5	136	139.4	-	-	7.2	5	10002520
K16 150-133	150	133	26.5	146	149.4	-	-	7.2	5	10002522
K16 160-140	160	140	25	155	158	-	-	6.3	6	10002523
K16 160-143	160	143	26.5	156	159.4	-	-	7.2	5	10002524
K16 170-153	170	153	26.5	166	169.4	-	-	7.2	5	10002526
K16 180-163	180	163	26.5	176	179.4	-	-	7.2	5	10002527
K16 200-180	200	180	31.5	196	199.4	-	-	9.2	6	10002528
K16 220-200	220	200	31.5	216	219.4	-	-	9.2	6	10002529
K16 250-225	250	225	31.5	246	249.4	-	-	6.6	6	10002530
K16 250-230	250	230	31.5	246	249.4	-	-	9.2	6	10002531