K01
Rod Packing



K01 is a single-acting rod sealing set comprising a header ring, five intermediate chevron rings (fabric and elastomer), and a fabric elastomer back ring. It provides effective sealing with a preloaded design and high extrusion resistance, suitable for reliable rod sealing in hydraulic systems.

Adventages

- Good performance in harsh conditions
- High abrasion resistance
- Long service life

Application

- Iron and steel industry
- Marine hydraulics
- Presses
- Heavy duty cylinders
- Mining industry

Operating Conditions

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

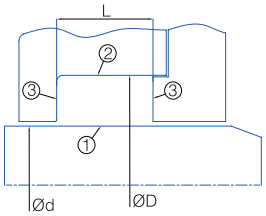


A=Height of Backup Ring
E=Height of Middle Ring
B=Height of Header

Header	Fabric Middle Ring	Elastomer Middle Ring	Backup Ring	Remarks
Thermoplastic-PM9903S	Fabric Elastomer-FB8001	Elastomer-NB9001	Fabric Elastomer-FB9001	Standard produced material code
Thermoplastic-PA9901	Fabric Elastomer-FB8005	Elastomer-FK8001	Fabric Elastomer-FB8005	For systems with higher temperatures (up to 150°C), product can be produced in FKM and fabric reinforced FKM. The front parts are produced in PA material.
PTFE-PT5501	Fabric Elastomer-FB7003	Elastomer-FK8001	Fabric Elastomer-FB7003	For systems with higher temperatures (up to 200°C), product can be produced in FKM and fabric reinforced FKM. The front parts are produced in PTFE material.
Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Dimensions up to diameter of 1500 mm are available with machined polyurethane middle parts and machined hard thermoplastic header/back rings. The middle rings can be produced from materials such as polyurethane - UHMW-PE, while the header and back rings can be produced as hard thermoplastic POM or PA.
PTFE	PTFE	PTFE	PTFE	It can be produced from various PTFE materials for special applications for heavy conditions such as chemical resistance and high temperature etc.

Note: In the special application conditions (temperature, media, etc.) Can be produced from different materials. You can refer to Table 2.11 for details or you can contact our sales department.

Surface Rougness



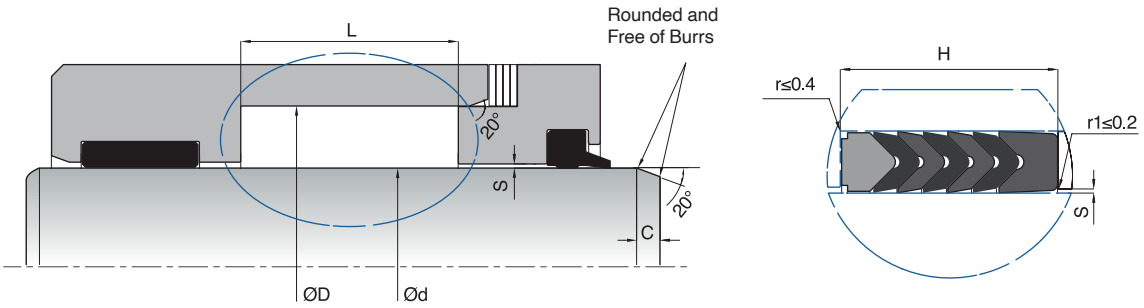
	1 (rod)	2 (groove base)	3 (groove flanks)
Ra	0.1-0.4 μm	0.4-1.6 μm	0.4-3.2 μm
Rmax	< 3.2 μm	< 6.3 μm	< 16 μm
Rmr	When C=0.25xRz on the dynamic work surface and reference line C_{ref} = 5%, the working surface contact area should be approximately between 55% and 80%.		

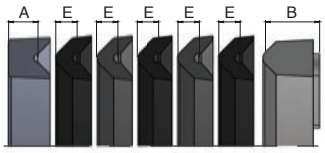
Installation Information

Being assembled in open adjustable housing, the groove housing should have an adjustability of 7.5% of the seal height. If there is a requirement of being used in closed housing (>Ø400), individual parts should be cut with 45° angle and staggered by 120° angle at installation. In case of high preload on the intermediate rings, high friction force, high temperature and vibrating at low pressures during the operation, The preload can be on the packing can be adjusted by the help of the metal rings. 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 (see page 50).

For inner diameters above 200 mm , all the middle rings are being produced from reinforced cotton fabric with NBR material. Additional middle rings can be used depending on the application.

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A=Height of Backup Ring
E=Height of Middle Ring
B=Height of Header

CALCULATION OF THE SEAL HEIGHT FOR ROD PACKING = A + (n*E) + B
NOTE: In cases where the groove height is different from dimensions in the catalog, number of the middle rings (n) can be decided by using the E value in the above formula.

Maximum Extrusion Gap "S_{max}" for K01 (mm)
0.15 mm

KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	H	Cross Section	E	C	KASTAŞ CODE
K01-008	8	18	18.5	18.5	5	2.5	3	10000064
K01-010	10	20	18.5	18.5	5	2.5	3	10000065
K01-012	12	22	18.5	18.5	5	2.5	3	10000068
K01-014	14	24	18.5	18.5	5	2.5	3	10000071
K01-015	15	25	18.5	18.5	5	2.5	3	10000074
K01-016	16	26	18.5	18.5	5	2.5	3	10000076
K01-018	18	28	18.5	18.5	5	2.5	3	10000080
K01-020	20	30	18.5	18.5	5	2.5	3	10000085
K01-020/1	20	32	22.5	22.5	6	3	5	10000089
K01-022	22	32	18.5	18.5	5	2.5	3	10000094
K01-022/1	22	34	22.5	22.5	6	3	5	10000101
K01-025	25	37	22.5	22.5	6	3	5	10000105
K01-025/1	25	40	22.5	22.5	7.5	3	5	10000107
K01-028	28	40	22.5	22.5	6	3	5	10000111
K01-028/1	28	43	22.5	22.5	7.5	3	5	10000114
K01-030	30	42	22.5	22.5	6	3	5	10000116
K01-030/1	30	45	22.5	22.5	7.5	3	5	10000120
K01-032	32	44	22.5	22.5	6	3	5	10000124
K01-032/1	32	47	22.5	22.5	7.5	3	5	10000129
K01-032/2	32	45	22.5	22.5	6.5	3	5	10000132
K01-035	35	47	22.5	22.5	6	3	5	10000133
K01-035/1	35	50	22.5	22.5	7.5	3	5	10000137
K01-036	36	48	22.5	22.5	6	3	5	10000142
K01-036/1	36	51	22.5	22.5	7.5	3	5	10000144
K01-040	40	52	22.5	22.5	6	3	5	10000146
K01-040/1	40	55	22.5	22.5	7.5	3	5	10000151
K01-040/3	40	56	22.5	22.5	8	3	5	10000155
K01-042	42	54	22.5	22.5	6	3	5	10000157
K01-042/1	42	57	22.5	22.5	7.5	3	5	10000158
K01-045	45	60	22.5	22.5	7.5	3	5	10000159
K01-045/1	45	65	22.5	22.5	10	4	5	10000169
K01-048	48	63	22.5	22.5	7.5	3	5	10000185
K01-050	50	65	22.5	22.5	7.5	3	5	10000186
K01-050/1	50	70	30	30	10	4	5	10000192
K01-055	55	70	22.5	22.5	7.5	3	5	10000197
K01-055/1	55	75	30	30	10	4	5	10000201
K01-055/2	55	67	24	24	6	3	5	10000209
K01-056	56	71	22.5	22.5	7.5	3	5	10000212

KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	H	Et Kalınlığı	E	C	KASTAŞ CODE
K01-056/1	56	76	37	37	10	5	5	10000219
K01-056/2	56	72	46	46	8	6	5	10000221
K01-060	60	75	22.5	22.5	7.5	3	5	10000223
K01-060/1	60	80	37	37	10	5	5	10000229
K01-060/3	60	85	37	37	12.5	5	7.5	10000234
K01-063	63	78	22.5	22.5	7.5	3	5	10000236
K01-063/1	63	83	37	37	10	5	5	10000241
K01-065	65	80	22.5	22.5	7.5	3	5	10000245
K01-065/1	65	85	40	40	10	5	5	10000250
K01-070	70	85	22.5	22.5	7.5	3	5	10000252
K01-070/1	70	90	40	40	10	5	5	10000262
K01-075	75	90	22.5	22.5	7.5	3	5	10000270
K01-075/1	75	95	40	40	10	5	5	10000275
K01-075/2	75	87	25	25	6	3	5	10000278
K01-075/3	75	100	34	34	12.5	4	7.5	10000279
K01-080	80	95	22.5	22.5	7.5	3	5	10000284
K01-080/1	80	100	40	40	10	5	5	10000293
K01-085	85	100	22.5	22.5	7.5	3	5	10000302
K01-085/1	85	105	40	40	10	5	5	10000306
K01-085/2	85	95	22.5	22.5	5	3	3	10000308
K01-090	90	105	22.5	22.5	7.5	3	5	10000309
K01-090/1	90	110	40	40	10	5	5	10000317
K01-100	100	115	30	30	7.5	4	5	10000331
K01-100/1	100	120	40	40	10	5	5	10000336
K01-105	105	120	30	30	7.5	4	5	10000344
K01-105/1	105	125	40	40	10	5	5	10000346
K01-110	110	125	30	30	7.5	4	5	10000349
K01-110/1	110	130	40	40	10	5	5	10000359
K01-115	115	130	30	30	7.5	4	5	10000363
K01-115/1	115	140	46	46	12.5	6	7.5	10000365
K01-115/2	115	135	30	30	10	3.5	5	10000368
K01-120	120	140	49	49	10	6.5	5	10000369
K01-120/1	120	145	46	46	12.5	6	7.5	10000371
K01-125	125	140	34	34	7.5	5	5	10000375
K01-125/1	125	150	46	46	12.5	6	7.5	10000378
K01-135	135	160	55	55	12.5	6	7.5	10000387
K01-140	140	155	34	34	7.5	4.5	7.5	10000390
K01-140/1	140	165	46	46	12.5	6	7.5	10000395
K01-140/2	140	160	32	32	10	4	5	10000400
K01-140/3	140	170	60	60	15	7.5	7.5	10000406
K01-150	150	170	40	40	10	5	5	10000407
K01-150/1	150	180	60	60	15	7.5	7.5	10000415
K01-160	160	180	40	40	10	5	7.5	10000419
K01-160/1	160	190	60	60	15	7.5	7.5	10000424
K01-160/2	160	175	34	34	7.5	3.5	5	10000428
K01-165	165	195	50.5	50.5	15	6	7.5	10000430
K01-170	170	190	40	40	10	5	5	10000434
K01-180	180	200	40	40	10	5	5	10000435
K01-180/1	180	210	60	60	15	7.5	7.5	10000439
K01-190	190	220	42	42	15	5.5	7.5	10000447
K01-200	200	220	40	40	10	5	5	10000456
K01-200/1	200	230	60	60	15	7.5	7.5	10000460
K01-210	210	240	50	50	15	6.9	7.5	10000466
K01-220	220	240	40	40	10	5	5	10000475
K01-230	230	260	58	58	15	7.25	7.5	10000477
K01-240	240	270	60	60	15	7.5	7.5	10000480

KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	H	Et Kalınlığı	E	C	KASTAŞ CODE
K01-240/1	240	260	46	46	10	5	5	10000485
K01-250	250	270	42	42	10	6	5	10000486
K01-260	260	290	60	60	15	7.5	7.5	10000488
K01-300	300	330	60	60	15	7.5	7.5	10000498
K01-310	310	340	60	60	15	7.5	7.5	10000502
K01-320	320	350	60	60	15	7.5	7.5	10000503
K01-330	330	360	60	60	15	7.5	7.5	10000511
K01-360	360	390	60	60	15	7.5	7.5	10000514
K01-360/1	360	400	55	55	20	7.5	10	10000515
K01-370	370	400	55	55	15	7.5	7.5	10000524
K01-400	400	440	65	65	20	9	10	10000525
K01-400/1	400	430	46	46	15	5.5	7.5	10000531
K01-420	420	460	80	80	20	10	10	10000534
K01-440	440	480	68	68	20	9.5	10	10000538
K01-450	450	490	65	65	20	8	10	10000540