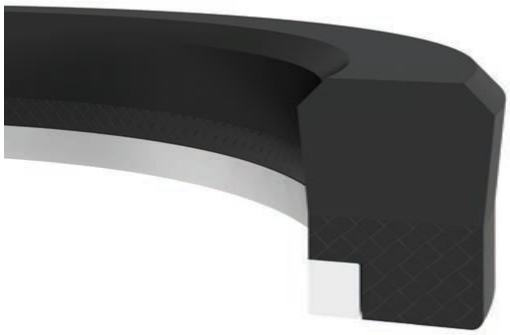
K37
Rod Seal



K37 is a single-acting hydraulic rod seal composed of a fabric-reinforced elastomer sealing ring and a thermoplastic anti-extrusion ring. This combination provides high extrusion resistance, long service life, and reliable sealing performance in heavy-duty applications.

Advantages
- Good sealing effect
- High extrusion resistance
- Long service life
- Good sealing at poor contact surface

Application
- Standard hydraulic cylinders
- Presses
- Mobile machinery
- Industrial cylinders

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

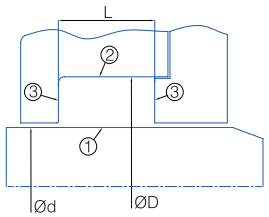
NOTE: The above values (speed, pressure, temperature) are maximum values, all cannot be used at the same time.

Material Information

U-ring	Back-up Ring	Remarks
Fabric Elastomer FB8001 / Elastomer NB8001	Thermoplastic-PM9901	Standard produced material code
Fabric Elastomer FB8005 / Elastomer FK8001	PTFE-PT6003	It can be produced as FKM for usage above 100°C.

Note: In the special application conditions (temperature, media, etc.) Can be produced from different materials. You can refer to Table 2.5, Table 2.6 and Table 2.7 for details or you can contact our sales department.

Surface Rougness

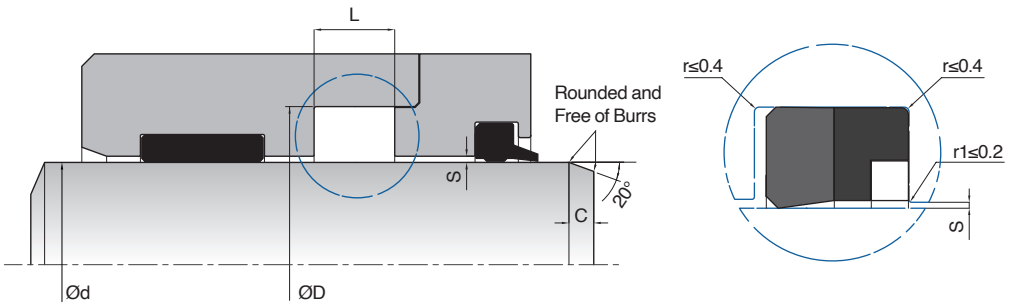


	1 (rod)	2 (groove base)	3 (groove flanks)
Ra	0.1-0.4 µm	0.2-1.6 µm	0.2-3.2 µm
Rmax	< 3.2 µm	< 6.3 µm	< 16 µm
Rmr	When C = 0.25xRz on the dynamic work surface and reference line C_{ref} = 5% , the working surface contact area should be approximately between 55% and 80%.		

Installation Information

Assembly into the open grooves. If it is neccessary to have a closed groove, please apply to our sales department. 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. (Please see installation instructions page 51-57)

K37 Rod Seal



Max. Permissible Sealing Gap Value "S_{max}" (mm) for K37		
150 bar	**250 bar**	**400 bar**
0.35	0.25	0.20

S_{max} values are suitable for operating conditions up to 60 °C. The S_{max} value should be calculated according to the formula on page 64 and it is recommended not to exceed the given S_{max} value.

KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	C	KASTAŞ CODE
K37-006	6	14	6.5	5	10018129
K37-012	12	23	7.5	5	10018130
K37-015	15	27	7	5	10018131
K37-016	16	28	7.5	5	10018132
K37-016/1	16	24	7	5	10018133
K37-018	18	26	6.4	5	10018134
K37-018/1	18	28	6.3	5	10018135
K37-018/2	18	30	7.5	5	10018136
K37-020	20	30	8	5	10018137
K37-020/1	20	27	6	5	10018139
K37-020/2	20	28	6.3	5	10018140
K37-020/3	20	28	7	5	10018141
K37-020/4	20	30	8.5	5	10018142
K37-020/5	20	28	5.6	5	10018143
K37-022	22	32	7.5	5	10018145
K37-022/1	22	29	5	5	10018147
K37-022/2	22	30	7	5	10018148
K37-022/3	22	32	10	5	10018150
K37-022/4	22	34	9.5	5	10018151
K37-022/5	22	35	10	5	10018152
K37-025	25	38	9.5	5	10018153
K37-025/1	25	33	6	5	10018154
K37-025/2	25	35	8	5	10018156
K37-025/3	25	33	6.4	5	10018158
K37-025/4	25	35	9	5	10018160
K37-025/5	25	38	10	5	10018162
K37-025/6	25.4	38.1	10	5	10018163
K37-025/7	25	33	7	5	10018164
K37-028	28	38	8	5	10018165
K37-028/1	28	41	9.5	5	10018167
K37-028/2	28	36	6.4	5	10018168
K37-028/3	28	40	9.5	5	10018170
K37-028/4	28	41	10	5	10018171
K37-028/5	28.57	39.68	9.5	5	10018172
K37-030	30	40	10.5	5	10018173
K37-030/1	30	38	6.5	5	10018175
K37-030/2	30	40	7	5	10018177
K37-030/3	30	40	7.5	5	10018179



KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	C	KASTAŞ CODE
K37-030/4	30	45	9	5	10018181
K37-030/5	30	50	14.5	5	10018183
K37-031	31.75	47.62	11.7	5	10018184
K37-032	32	40	9	5	10018185
K37-032/1	32	42	11	5	10018186
K37-032/2	32	45	10	5	10018188
K37-032/3	32	40	5	5	10018189
K37-032/4	32	40	8.5	5	10018190
K37-034	34.92	50.8	8.6	5	10018191
K37-035	35	45	10.5	5	10018192
K37-035/1	35	50	10.5	5	10018194
K37-035/2	35	45	10	5	10018195
K37-035/3	35	50	11.5	5	10018197
K37-035/4	35	43	6	5	10018198
K37-036	36	43	6.5	5	10018200
K37-036/1	36	44	6.4	5	10018201
K37-036/2	36	46	8.5	5	10018202
K37-036/3	36	48	12	5	10018204
K37-036/4	36	48	9.5	5	10018205
K37-038	38	55	10.5	5	10018206
K37-038/1	38.1	50.8	10	5	10018207
K37-038/2	38.1	53.97	10.5	5	10018208
K37-040	40	50	10.5	5	10018210
K37-040/1	40	55	10.5	5	10018212
K37-040/2	40	50	11	5	10018213
K37-040/3	40	48	6.5	5	10018215
K37-040/4	40	55	11	5	10018217
K37-040/5	40	50	10	5	10018219
K37-040/6	40	50	8	5	10018221
K37-040/7	40	55	8	5	10018223
K37-040/8	40	60	14.5	5	10018225
K37-040/9	40	52	12	5	10018226
K37-042	42	52	9	5	10018227
K37-044	44.5	53.97	7	5	10018228
K37-044/1	44.5	53.97	7.5	5	10018229
K37-044/2	44.5	60.32	11.7	5	10018231
K37-045	45	55	10.5	5	10018232
K37-045/1	45	60	10.5	5	10018234
K37-045/2	45	55	11	5	10018235
K37-045/3	45	55	8	5	10018236
K37-045/4	45	55	7.5	5	10018238
K37-045/5	45	57	10	5	10018240
K37-045/6	45	65	14.5	5	10018241
K37-045/7	45	53	8.5	5	10018242
K37-045/8	45	60	10	5	10018243
K37-050	50	65	10.5	5	10018245
K37-050/1	50	62	10	5	10018247
K37-050/2	50	60	10.5	5	10018249
K37-050/3	50	60	10	5	10018251
K37-050/4	50	65	11	5	10018253
K37-050/5	50	62	8	5	10018254
K37-050/6	50	70	14	5	10018255
K37-050/7	50	60	7.5	5	10018256
K37-050/8	50	60	8	5	10018258
K37-050/9	50	70	14.5	5	10018260
K37-050/10	50	63	12	5	10018248



KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	C	KASTAŞ CODE
K37-054	54	66	9.5	5	10018262
K37-055	55	65	10.5	5	10018263
K37-055/1	55	65	12	5	10018264
K37-055/2	55	65	11	5	10018266
K37-055/3	55	75	14	5	10018267
K37-055/4	55	65	8	5	10018268
K37-055/5	55	70	10.5	5	10018269
K37-055/6	55	75	14.5	5	10018270
K37-056	56	66	10.5	5	10018271
K37-056/1	56	71	10.5	5	10018272
K37-056/2	56	76	14.5	5	10018274
K37-057	57.15	69.85	10	5	10018275
K37-060	60	70	10.5	5	10018277
K37-060/1	60	70	12.5	5	10018278
K37-060/2	60	80	14	5	10018283
K37-060/3	60	75	13	5	10018285
K37-060/4	60	75	12.5	5	10018286
K37-060/5	60	69	7	5	10018288
K37-060/6	60	70	11	5	10018289
K37-060/7	60	70	8	5	10018290
K37-060/8	60	70	13	5	10018292
K37-060/9	60	72	10	5	10018293
K37-060/11	60	80	14.5	5	10018280
K37-060/12	60	75	8	5	10018281
K37-063	63	71	9	5	10018295
K37-063/1	63	75	11	5	10018296
K37-063/2	63	78	12.5	5	10018297
K37-063/3	63	83	14.5	5	10018298
K37-063/4	63.5	82.55	14.5	5	10018299
K37-063/5	63.5	76.2	8.5	5	10018300
K37-063/6	63.5	77.78	11.6	5	10018301
K37-065	65	80	12.5	5	10018302
K37-065/1	65	75	12.5	5	10018303
K37-065/2	65	75	13.5	5	10018304
K37-065/3	65	77	9.6	5	10018305
K37-065/4	65	80	11.5	5	10018306
K37-070	70	80	12.5	5	10018307
K37-070/1	70	85	12	5	10018309
K37-070/2	70	85	12.5	5	10018311
K37-070/3	70	90	14	5	10018313
K37-070/4	70	80	8	5	10018315
K37-070/5	70	80	13	5	10018317
K37-070/6	70	82	10.5	5	10018319
K37-070/7	70	84	12.5	5	10018320
K37-070/8	70	90	12	5	10018321
K37-075	75	85	12.5	5	10018322
K37-075/1	75	90	11	5	10018323
K37-075/2	75	85	11	5	10018324
K37-075/3	75	90	11.5	5	10018325
K37-075/4	75	90	12.8	5	10018326
K37-075/5	75	95	14.5	5	10018327
K37-075/6	75	88	12.5	5	10018328
K37-075/7	75	90	8	5	10018329
K37-080	80	90	12.5	5	10018331
K37-080/1	80	100	12.5	5	10018333
K37-080/2	80	100	14	5	10018335



KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	C	KASTAŞ CODE
K37-080/3	80	95	12	5	10018336
K37-080/4	80	93	14.5	5	10018338
K37-080/5	80	96	10.5	5	10018339
K37-080/6	80	100	12	5	10018340
K37-080/7	80	100	14.5	5	10018341
K37-080/8	80	95	10	5	10018342
K37-085	85	100	12.5	5	10018343
K37-085/1	85	95	8	5	10018345
K37-085/2	85	100	12	5	10018346
K37-085/3	85	105	14.5	5	10018347
K37-088	88.9	114.3	19.7	5	10018348
K37-090	90	105	12.5	5	10018350
K37-090/1	90	110	12.5	5	10018352
K37-090/2	90	105	9.5	5	10018353
K37-090/4	90	106.2	11	5	10018356
K37-095	95	105	11	5	10018359
K37-095/1	95	112	12	5	10018360
K37-095/2	95	115	14.5	5	10018361
K37-095/3	95	110	12	5	10018362
K37-095/4	95	115	12	5	10018363
K37-095/5	95	107	12.5	5	10018364
K37-100	100	115	12.5	7	10018365
K37-100/1	100	120	14	7	10018367
K37-100/2	100	125	20	7	10018369
K37-100/3	100	120	24.5	7	10018370
K37-100/4	100	115	11.5	7	10018371
K37-100/5	100	120	12	7	10018373
K37-100/6	100	120	14.5	7	10018374
K37-100/7	100	113	13.5	7	10018376
K37-105	105	115	11	7	10018377
K37-105/1	105	125	12.5	7	10018378
K37-110	110	130	12.5	7	10018379
K37-110/1	110	125	12	7	10018380
K37-110/2	110	135	15.5	7	10018381
K37-115	115	135	16	7	10018382
K37-120	120	130	10.5	7	10018384
K37-120/1	120	132.7	10	7	10018385
K37-120/2	120	135	12.5	7	10018386
K37-120/3	120	140	12.5	7	10018388
K37-120/4	120	145	18.8	7	10018389
K37-125	125	150	14	7	10018390
K37-125/1	125	150	14.5	7	10018391
K37-130	130	145	13	7	10018394
K37-130/1	130	145	15	7	10018395
K37-130/2	130	150	16	7	10018396
K37-135	135	150	14	7	10018397
K37-135/1	135	160	14	7	10018398
K37-140	140	160	12	7	10018400
K37-140/1	140	155	13	7	10018401
K37-140/2	140	160	14.5	7	10018403
K37-140/3	140	160	12.5	7	10018405
K37-140/4	140	170	22.8	7	10018406
K37-145	145	157.7	10	7	10018408
K37-150	150	170	14	7	10018410
K37-150/1	150	170	14.5	7	10018411
K37-160	160	175	16	7	10018413



KASTAŞ NO	d (f8)	D (H9)	L (+0.2/-0)	C	KASTAŞ CODE
K37-160/1	160	180	14.5	7	10018414
K37-175	175	200	23	7	10018416
K37-180	180	200	14.5	7	10018419
K37-180/1	180	210	20.5	7	10018420
K37-190	190	210	14.5	7	10018421
K37-198	198	208	12	7	10018422
K37-200	200	220	14.5	10	10018423
K37-210	210	240	22.5	10	10018424
K37-220	220	250	20.5	10	10018425
K37-230	230	260	20.5	10	10018427