K32
Rod Seal



K32 is a single-acting rod seal designed for hydraulic cylinder applications. It consists of a high-performance polyurethane sealing element and a thermoplastic back-up ring, offering excellent extrusion resistance and reliable sealing under high-pressure conditions.

Advantages
- Good sealing effect
- High extrusion resistance
- Long service life

Application
- Construction machinery
- Mobile machinery
- Loading platforms
- Presses
- Medium and heavy duty cylinders

Operating Conditions

MOTION:	Linear		
PRESSURE (bar):	400 bar (max)		
SPEED(m/s)	0.5 m/s (max)		
TEMPERATURE (°C):	-35/+100 °C	+5/+50 °C	-30/+40 °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

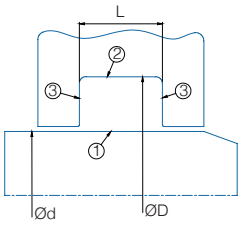
U-ring	Back-up Ring	Remarks
Polyurethane-PU9401	Termoplastik-PM9901	Standard produced material code
Polyurethane-PU9411	Termoplastik-PA9910	Material code that can be produced upon request.

Note: In the special application conditions (temperature, media, etc.) Can be produced from different materials. You can refer to Table 2.7 and Table 2.10 for details or you can contact our sales department.

Installation Information

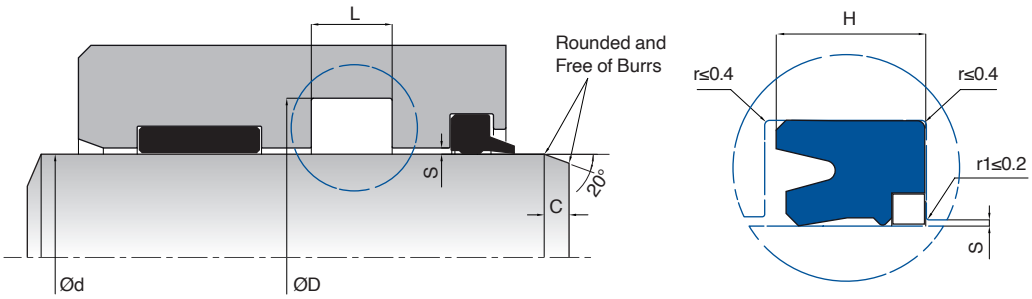
Easily assembled into closed grooves according to the minimum diameter values that are given in the table 3.2 by the rod installation tools. Open grooves are recommendec for the values that are outside this table. First TPU uring, then the thermoplastik POM should be mounted into the groove at the product. 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. (See the installation instruction at page 51-57)

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 50% and 70%.		

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Cross Section (mm)	Max. Permissible Sealing Gap Value "S_{max}" (mm) for K32		
	150 bar	250 bar	400 bar
≤5	0.45	0.30	0.25
5-7.5	0.50	0.35	0.30
7.5-12.5	0.60	0.40	0.35
>12.5	0.65	0.45	0.40

These are the recommended Permissible Sealing Gap Value based on a maximum temperature of 60°C. The S_{max} value should be calculated according to the formula on page 64 and it is recommended not to exceed the givenhesaplanmalıdır ve S_{max} value.

KASTAŞ NO	d (f8)	D (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K32-019	19.05	25.4	7.14	6.35	3.5	10016330
K32-022	22	30	7	6	4.5	10016332
K32-025	25	35	6	5	5.5	10016334
K32-025/1	25.4	31.75	7.14	6.35	3.5	10016336
K32-028	28	38	7	6	5.5	10016338
K32-028/1	28	35.5	6	5	4.5	10016340
K32-030	30	40	9	8	5.5	10016342
K32-031	31.75	38.1	7.14	6.35	3.5	10016343
K32-032	32	45	10.5	9.5	5.5	10016345
K32-032/1	32	42	8	7	5.5	10016347
K32-034	34.92	41.27	7.14	6.35	3.5	10016348
K32-035	35	45	9	8	5.5	10016350
K32-035/1	35	45	8	7	5.5	10016351
K32-036	36	46	9	8	5.5	10016352
K32-038	38.1	44.45	7.14	6.35	3.5	10016353
K32-040	40	50	11	10	5.5	10016355
K32-040/1	40	52	13	12	5.5	10016356
K32-040/2	40	52	12	109	5.5	10016357
K32-040/3	40	48	9	8	4.5	10016359
K32-040/4	40	52	10	9	5.5	10016361
K32-044	44.45	53.97	10.5	9.52	5.5	10016362
K32-044/1	44.45	50.8	7.14	6.35	3.5	10016364
K32-045	45	55	11	10	5.5	10016366
K32-050	50	60	11	10	5.5	10016367
K32-050/1	50	62	9	8	5.5	10016369
K32-050/2	50.8	57.15	7.14	6.35	3.5	10016371
K32-050/4	50	65	13	12	6	10016374
K32-052	52	68	11	10	6	10016376
K32-055	55	65	11	10	5.5	10016378
K32-055/1	55	65	13	12	5.5	10016379
K32-056	56	71	11	10	6	10016381
K32-056/1	56	74	11	10	6	10016383
K32-060	60	70	11	10	5.5	10016385
K32-060/2	60	75	13	12	6	10016386
K32-063	63	75	9	8	5.5	10016387
K32-063/1	63	78	12	10.8	6	10016388
K32-065	65	80	13	12	6	10016389
K32-070	70	80	11	10	5.5	10016391



KASTAŞ NO	d (f8)	D (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K32-070/1	70	82	13	12	5.5	10016393
K32-075	75	85	13	12	5.5	10016395
K32-080	80	90	13	12	5.5	10016396
K32-080/1	80	92	12	11	5.5	10016397
K32-080/3	80	100	16	15	6.5	10016398
K32-085	85	100	13	12	6	10016399
K32-090	90	100	13	12	5.5	10016401
K32-095	95	105	13	12	5.5	10016402
K32-100	100	115	13	12	6	10016404
K32-100/1	100	120	13	12	6.5	10016406
K32-105	105	115	13	12	5.5	10016408
K32-110	110	125	15.6	14.6	6	10016409
K32-110/1	110	130	16	15	6.5	10016410
K32-115	115	125	13	12	5.5	10016412
K32-120	120	140	15.6	14.6	6.5	10016413
K32-125	125	145	13	12	6.5	10016415
K32-130	130	140	13	12	5.5	10016416
K32-135	135	145	13	12	5.5	10016417
K32-140	140	160	15.6	14.6	6.5	10016418
K32-150/2	150	160	13	12	5.5	10016420
K32-155	155	170	15.6	14.6	6	10016421
K32-160	160	170	13	12	5.5	10016424
K32-190	190	210	16	15	6.5	10016427
K32-195	195	215	16	15	6.5	10016428
K32-210	210	235	19.2	18.2	8	10016429
K32-220	220	235	15.6	14.6	6	10016431
K32-260	260	280	15.6	14.6	6.5	10016433
K32-275	275	295	12	11	6.5	10016434
K32-285	285	310	20	19	8	10016435
K32-350	350	380	24	22.5	9.5	10016438
K32-380	380	400	16	15	6.5	10016440