K38
Rod Seal



K38 is a single-acting hydraulic rod seal featuring a precision-cut dual-lip design with a short inter-lip distance that enhances sealing performance. The secondary sealing lip and optimized preload provide reliable sealing even at low pressure conditions.

Advantages
- Good sealing effect
- Long service life
- Suitable design for telescopic cylinders

Application
- Mobile machinery
- Industrial cylinders
- Telescopic 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

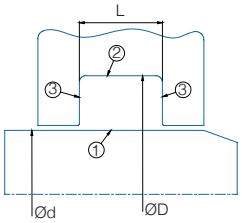
U-ring	Remarks
Polyurethane-PU9401	Standard produced material code
Polyurethane-PU9411	Material code that can be produced upon request.

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

Installation Information

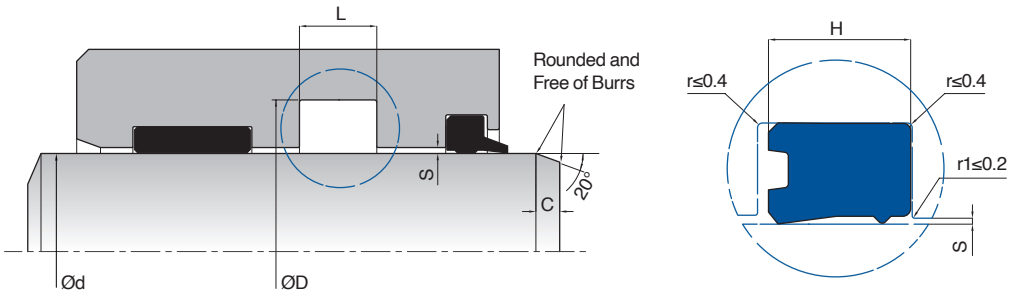
Easily assembled into closed grooves according to the minimum diameter values that are given in the table 3.2. Open grooves are recommended for the values that are outside this table. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the rod seal must be oiled with system oil. (Please see Installation instructions - 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 K38		
	150 bar	250 bar	400 bar
≤5	0.30	0.20	0.15
5-7.5	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 (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K38-006	6	14	6.8	5.8	4.5	10018470
K38-008	8	16	6.8	5.8	4.5	10018471
K38-010	10	18	6.8	5.8	4.5	10018472
K38-012	12	19	6.7	5.7	4	10018475
K38-012/1	12	20	6.8	5.8	4.5	10018476
K38-014	14	22	6.8	5.8	4.5	10018477
K38-015	15	21.5	4.7	4.2	3.5	10018478
K38-016	16	24	6.8	5.8	4.5	10018481
K38-016/1	16	22	4.5	4	3.5	10018484
K38-018	18	26	6.8	5.8	4.5	10018487
K38-018/1	18	26	9	8	4.5	10018489
K38-018/2	18	25	6	5	4	10018490
K38-020	20	27	6.8	5.8	4	10018493
K38-020/1	20	28	6.8	5.8	4.5	10018495
K38-020/2	20	30	8	7	5.5	10018497
K38-022	22	28	5	4.5	3.5	10018498
K38-022/1	22	30	6.8	5.8	4.5	10018499
K38-022/2	22	30	8	7	4.5	10018502
K38-022/3	22	32	9	8	5.5	10018503
K38-022/5	22.22	28.57	7	6.35	3.5	10018504
K38-022/6	22.23	28.58	3.5	3.18	3.5	10018505
K38-024	24.5	30	5	4.5	3.5	10018506
K38-025	25	33	6.8	5.8	4.5	10018507
K38-025/1	25	33	8	7	4.5	10018510
K38-025/2	25	35	8	7	5.5	10018511
K38-025/3	25	35	11	10	5.5	10018512
K38-025/4	25	35	9	8	5.5	10018513
K38-028	28	38	6.8	5.8	5.5	10018515
K38-028/1	28	38	8	7	5.5	10018516
K38-028/2	28	36	7.3	6.3	4.5	10018517
K38-028/3	28	36	6.8	5.8	4.5	10018520
K38-028/4	28	34	3.9	3.4	3.5	10018521
K38-028/5	28	36	6	5	4.5	10018522
K38-030	30	38	6.8	5.8	4.5	10018524
K38-030/1	30	38	9	8	4.5	10018527
K38-030/2	30	36	7	6	3.5	10018528
K38-030/3	30	40	7.5	6.5	5.5	10018529
K38-030/4	30	40	11	10	5.5	10018530



KASTAŞ NO	d (f8)	D (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K38-030/5	30	40	8	7	5.5	10018531
K38-030/6	30	38	8	7	4.5	10018533
K38-031	31.75	38.1	7	6.35	3.5	10018535
K38-031/1	31.75	41.27	7	6.35	5.5	10018536
K38-032	32	40	9	8	4.5	10018538
K38-032/1	32	42	8	7	5.5	10018539
K38-032/2	32	40	8	7	4.5	10018540
K38-032/3	32	40	7.5	6.5	4.5	10018541
K38-032/4	32	42	9	8	5.5	10018542
K38-034	34	50	11	10	6	10018543
K38-034/1	34.93	44.45	8.7	7.92	5.5	10018544
K38-035	35	43	6.8	5.8	4.5	10018545
K38-035/1	35	43	9	8	4.5	10018547
K38-035/2	35	45	11	10	5.5	10018549
K38-035/3	35	50	11	10	6	10018550
K38-035/4	35	45	8	7	5.5	10018551
K38-036	36	44	6.8	5.8	4.5	10018552
K38-036/1	36	44	9	8	4.5	10018555
K38-037	37	47	11	10	5.5	10018557
K38-038	38	50	9.5	8.5	5.5	10018558
K38-038/1	38.1	47.62	8.7	7.92	5.5	10018559
K38-038/2	38.1	47.62	7	6.35	5.5	10018560
K38-040	40	48	6.8	5.8	4.5	10018561
K38-040/1	40	48	9	8	4.5	10018563
K38-040/2	40	50	8	7	5.5	10018565
K38-040/3	40	50	11	10	5.5	10018567
K38-040/4	40	55	11	10	6	10018568
K38-040/5	40	60	11	10	6.5	10018569
K38-040/6	40	50	9	8	5.5	10018570
K38-040/7	40	48	7	6	4.5	10018571
K38-042	42	50	7	6	4.5	10018572
K38-042/1	42	52	9	8	5.5	10018573
K38-044	44.45	53.97	8.7	7.92	5.5	10018574
K38-045	45	53	6.8	5.8	4.5	10018575
K38-045/1	45	55	6.8	5.8	5.5	10018577
K38-045/2	45	55	8	7	5.5	10018578
K38-045/3	45	55	11	10	5.5	10018579
K38-045/4	45	52	13	12	4	10018580
K38-045/5	45	53	9	8	4.5	10018581
K38-045/6	45	53	7.3	6.3	4.5	10018583
K38-046	46	54	9	8	4.5	10018585
K38-048	48	60	7	6	5.5	10018587
K38-050	50	58	9	8	4.5	10018589
K38-050/1	50	60	8	7	5.5	10018590
K38-050/2	50	60	10	9	5.5	10018593
K38-050/3	50	60	11	10	5.5	10018594
K38-050/4	50	65	11	10	6	10018596
K38-050/5	50	70	14.5	13.5	6.5	10018597
K38-050/6	50.8	60.32	8.7	7.92	5.5	10018598
K38-050/7	50.8	63.5	7	6.35	5.5	10018599
K38-050/8	50	63	10	9	5.5	10018600
K38-050/9	50	63	11	10	5.5	10018601
K38-055	55	63	9	8	4.5	10018602
K38-055/1	55	65	11	10	5.5	10018604
K38-055/2	55	65	13	12	5.5	10018605
K38-055/3	55	65	9	8	5.5	10018606



KASTAŞ NO	d (f8)	D (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K38-055/4	55	65	8	7	5.5	10018607
K38-056	56	66	7.5	6.5	5.5	10018608
K38-056/1	56	71	12.5	11.5	6	10018610
K38-056/2	56	64	9	8	4.5	10018611
K38-057	57.15	66.67	10.5	9.52	5.5	10018612
K38-057/1	57.15	66.68	9.4	8.51	5.5	10018613
K38-060	60	68	9	8	4.5	10018615
K38-060/1	60	70	8.5	7.5	5.5	10018617
K38-060/2	60	70	11	10	5.5	10018618
K38-060/3	60	70	12.5	11.5	5.5	10018620
K38-060/4	60	72	10	9	5.5	10018621
K38-060/5	60	68	13	12	4.5	10018622
K38-060/6	60	70	8	7	5.5	10018623
K38-060/7	60	68	8	7	4.5	10018624
K38-060/8	60	68	7.3	6.3	4.5	10018625
K38-061	61	69	9	8	4.5	10018628
K38-063	63	71	9	8	4.5	10018630
K38-063/1	63.5	73.02	10.5	9.52	5.5	10018631
K38-063/2	63	75	9.6	8.6	5.5	10018632
K38-065	65	73	9	8	4.5	10018633
K38-065/1	65	75	13.5	12.5	5.5	10018635
K38-068	68	76	9	8	4.5	10018637
K38-069	69.85	79.38	10.5	9.52	5.5	10018638
K38-070	70	78	9	8	4.5	10018639
K38-070/1	70	80	13	12	5.5	10018640
K38-070/2	70	85	12.5	11.5	6	10018642
K38-070/3	70	82	10	9	5.5	10018644
K38-070/4	70	80	7.5	6.5	5.5	10018646
K38-070/5	70	80	8	7	5.5	10018647
K38-074	74	82	9	8	4.5	10018649
K38-075	75	83	9	8	4.5	10018650
K38-075/1	75	85	9	8	5.5	10018652
K38-075/2	75	85	8	7	5.5	10018653
K38-075/3	75	83	7.5	6.5	4.5	10018654
K38-075/4	75	83	7.3	6.3	4.5	10018655
K38-076	76	84	9	8	4.5	10018656
K38-076/1	76.2	85.72	10.5	9.52	5.5	10018658
K38-078	78	86	13	12	4.5	10018659
K38-080	80	88	9	8	4.5	10018661
K38-080/1	80	90	11	10	5.5	10018663
K38-080/2	80	90	13	12	5.5	10018664
K38-080/3	80	95	12.5	11.5	6	10018666
K38-080/4	80	96	10.5	9.5	6	10018667
K38-080/5	80	92	10	9	5.5	10018668
K38-085	85	93	9	8	4.5	10018670
K38-085/1	85	95	13	12	5.5	10018671
K38-086	86	101	13	12	6	10018672
K38-088	88	96	9	8	4.5	10018674
K38-088/1	88.9	101.6	10.5	9.52	5.5	10018676
K38-090	90	98	9	8	4.5	10018680
K38-090/1	90	102	10	9	5.5	10018682
K38-090/2	90	105	12.5	11.5	6	10018683
K38-090/3	90	110	15	14	6.5	10018684
K38-090/4	90	98	7.5	6.5	4.5	10018685
K38-091	91	99	9	8	4.5	10018686
K38-092	92	100	7.3	6.3	4.5	10018688



KASTAŞ NO	d (f8)	D (H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K38-095	95	103	9	8	4.5	10018690
K38-095/1	95	105	9	8	5.5	10018692
K38-097	97	105	14	13	4.5	10018693
K38-097/1	97	105	13	12	4.5	10018694
K38-100	100	108	12.5	11.5	4.5	10018699
K38-100/1	100	115	13	12	6	10018700
K38-100/2	100	120	16	15	6.5	10018702
K38-100/3	100	108	9	8	4.5	10018703
K38-101	101.6	114.3	10.5	9.52	5.5	10018704
K38-104	104	112	9	8	4.5	10018705
K38-105	105	113	9	8	5.5	10018706
K38-106	106	116	9	8	4.5	10018707
K38-107	107	115	9	8	4.5	10018708
K38-108	108	116	9	8	6.5	10018710
K38-110	110	130	16	15	6	10018711
K38-110/1	110	125	10.5	9.5	6	10018712
K38-112	112	127	13	12	4.5	10018713
K38-114	114.3	127	10.5	9.52	5.5	10018714
K38-115	115	123	9	8	5.5	10018715
K38-115/1	115	125	9	8	5	10018716
K38-115/2	115	124	16	15	4.5	10018717
K38-115/3	115	123	12.5	11.5	4.5	10018718
K38-118	118	126	14	13	4.5	10018720
K38-120	120	128	12.5	11.5	6	10018722
K38-120/1	120	135	16	15	3.5	10018723
K38-122	122	128	9	8	6.5	10018724
K38-125	125	145	19	15	4.5	10018725
K38-126	126	134	9	8	4.5	10018726
K38-135	135	143	12.5	11.5	5.5	10018729
K38-135/1	135	145	9	8	3.5	10018730
K38-139	139.7	152.4	10.5	9.52	5.5	10018732
K38-142	142	148	9	8	4.5	10018733
K38-145	145	153	9	8	4.5	10018734
K38-155	155	163	12.5	11.5	6	10018737
K38-155/1	155	170	12.5	11.5	5.5	10018738
K38-160	160	170	9	8	4.5	10018740
K38-165	165	173	9	8	5.5	10018742
K38-166	166	176	13	12	4.5	10018744
K38-171	171.45	184.15	10.5	9.52	5.5	10018746
K38-175	175	183	12.5	11.5	5.5	10018747
K38-180	180	190	12	11	5.5	10018748
K38-185	185	195	9	8	5.5	10018750
K38-210	210	220	12	11	5.5	10018755
K38-212	212	223	9	8	5.5	10018756
K38-220	220	230	12.5	11.5	5.5	10018758