K98
Piston-Rod Seal



K98 is a single-acting hydraulic sealing element consisting of a specially designed polyurethane U-ring and an elastomer O-ring. It is suitable for applications subject to pressure fluctuations, shock loads, vibration, and long-term static conditions.

Advantages
- Superior static and dynamic sealing effect
- Design providing good sealing performance at shock, low and variable pressures
- Safely operating with the elastomer o-ring in long duration locking systems
- High wear resistance

Application
- Mining industry
- Iron and steel industry
- Scrap metal presses
- Mobile machinery
- Marine hydraulics

Operating Conditions

MOTION:	Linear		
PRESSURE (bar):	400 bar (max)		
SPEED (m/s):	0.5 m/s (max)		
TEMPERATURE (°C):	-30/+100 °C	+5/+50 °C	-30/+40 °C
MEDIA TYPE	Mineral Oils	HFA/HFB	HFC

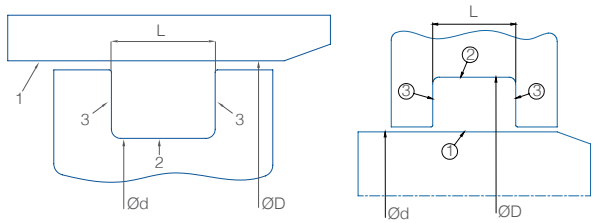
NOTE: The above values (speed, pressure, temperature) are maximum values, all cannot be used at the same time.

Material Information

U-ring	İtici Ring	Remarks
Polyurethane-PU9201	Elastomer-NB7001	Standard produced material code

Note: In the special application conditions (temperature, media, etc.) Can be produced from different materials. You can refer to Table 2.6 and Table 2.10 for details or you can contact our sales department.

Surface Roughness

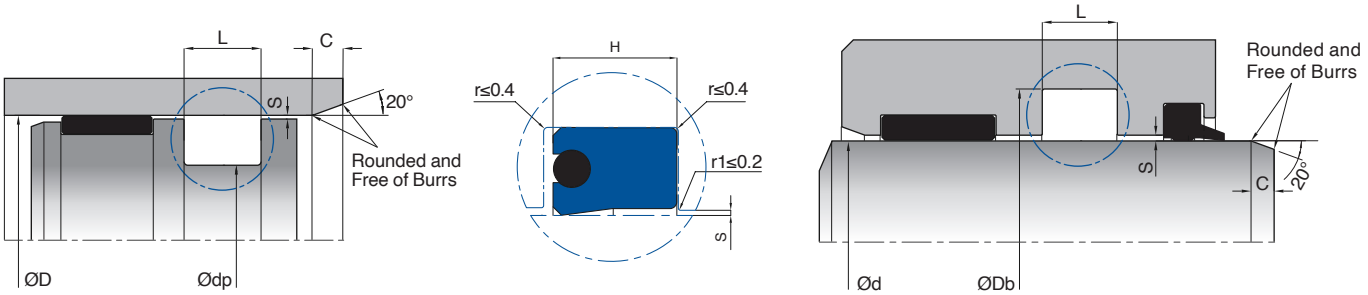


	1 (mil-boru)	2 (groove base)	3 (groove flanks)
Ra	0.1-0.4 μm	0.2-1.6 μm	0.2-3.2 μm
Rmax	< 3.2 μm	< 6.3 μm	< 16 μm
Rmr	When C = 0.25xRz on the dynamic work surface and reference line C_{ref} = 5% , the working surface contact area should be approximately between 50% and 70%.		

Installation Information

If the installation will be done on an one piece piston, the selection should be made according to Table 3.2. (See. Page 47). In cases other than these values, split piston head or split gland cap design should be preferred. Products should be installed after lubricating with system oil. To avoid damage the sealing lips while installing, chamfers should be according to the given catalogue values. It is recommended to use appropriate installation tools. (See. Installation Information - Page 51-57)

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Cross Section (mm)	Max. Permissible Sealing Gap Value "S_{max}" (mm) for K98		
	150 bar	250 bar	400 bar
≤5	0.30	0.20	0.15
>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(f7) dp(h11)	Db(H10) D(H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K98-019	19.05	25.4	7	6.35	3	10029840
K98-022	22.23	28.58	3.5	3.18	3	10029842
K98-025	25.4	31.75	7	6.35	3	10029844
K98-025/1	25.4	34.93	5.2	4.76	4	10029845
K98-025/2	25.4	34.93	8.7	7.94	4	10029846
K98-025/3	25.4	38.1	7	6.35	4.5	10029847
K98-025/4	25	32	8	7	4.5	10029848
K98-030	30	40	7	6	5	10029851
K98-031	31.75	38.1	7	6.35	3	10029855
K98-031/1	31.75	41.28	8.7	7.94	4	10029856
K98-035	35	45	7	6	5	10029857
K98-035/1	35	50	10	9	5	10029859
K98-038	38.1	47.63	8.7	7.94	4	10029860
K98-038/1	38.1	47.63	10.5	9.52	4	10029861
K98-038/2	38.1	50	10.5	9.52	4.5	10029862
K98-040	40	50	7	6	5	10029863
K98-040/1	40	50	10	9	5	10029865
K98-044	44.45	53.98	10.5	9.52	4	10029866
K98-044/1	44.45	63.5	18.2	16.48	5	10029867
K98-045	45	53	9	8	5	10029868
K98-045/1	45	55	7	6	5	10029870
K98-045/2	45	65	11	10	5	10029872
K98-045/3	45	60	12	11	5	10029874
K98-045/4	45	60	11	10	5	10029875
K98-045/5	45	55	11	10.	5	10029877
K98-047	47.62	63.5	12.5	11.5	5	10029878
K98-047/1	47.62	57.15	10.5	9.5	5	10029879
K98-050	50.8	60.33	10.5	9.52	4	10029880
K98-050/1	50.8	63.5	10.5	9.52	4.5	10029881
K98-050/2	50	58	9	8	5	10029883
K98-050/3	50	60	7	6	5	10029885
K98-050/4	50	63	10	9	5	10029887
K98-053	53	63	8.3	7.3	5	10029888
K98-055	55	65	7	6	5	10029889
K98-057	57.15	69.85	7	6.35	4.5	10029891
K98-060	60	68	9	8	5	10029892
K98-060/1	60	70	7	6	5	10029894
K98-060/2	60	75	10	9	5	10029896



KASTAŞ NO	d(f7) dp(h11)	Db(H10) D(H10)	L (+0.2/-0)	H	C	KASTAŞ CODE
K98-060/3	60	70	10	9	5	10029898
K98-063	63.5	76.2	10.5	9.52	4.5	10029899
K98-069	69.85	82.55	10.5	9.52	5	10029900
K98-076	76.2	88.9	10.5	9.52	4.5	10029901
K98-076/2	76.2	92.08	13.7	12.7	5	10029903
K98-088	88.9	101.6	10.5	9.52	4.5	10029904
K98-090	90	103	11	10	5	10029906
K98-092	92.08	101.6	10.5	9.52	4	10029907
K98-105	105	120	10	9	7	10029908
K98-106	106	120	9.5	8.5	7	10029910
K98-107	107.95	127	17.5	15.88	7	10029912
K98-109	109	125	11.5	10.5	7	10029913
K98-139	139.7	165.1	20.5	19.5	7	10029915