K83
Static Seal



K83 static seal is a double-acting sealing element manufactured from thermoplastic polyurethane, designed to provide sealing on its inner diameter under high-pressure conditions.

Advantages
- Good sealing effect
- High extrusion resistance
- Simple installation
- Suitable for o-ring installation groove with or without backup ring

Application
- High pressure applications
- Cranes
- Construction machinery
- Standard industrial cylinders
- Injection moulding machines

Operating Conditions

PRESSURE (bar):	600 bar (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

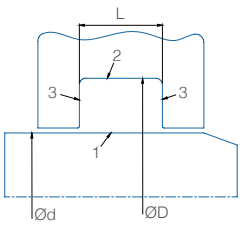
Static Seal	Remarks
Polyurethane-PU9401	Standard produced material code.

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

Installation Information

Before installation, it should be ensured that the groove surfaces are proper and have no corrosion. It is important that there are no burrs or nicks in the surfaces. It is recommended to use installation tools without sharp edges.

Surface Roughness

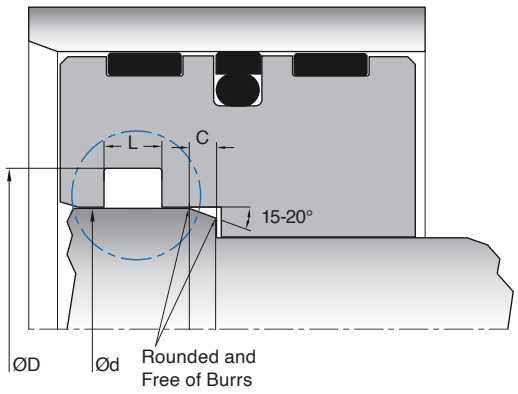


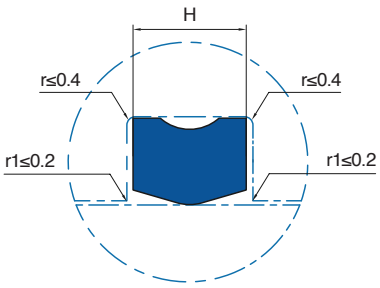
	1 (rod)	2 (groove base)	3 (groove flanks)
Ra	0.1-0.8 µm	0.2-1.6 µm	0.2-6.3 µm
Rmax	< 3.2 µm	< 6.3 µm	< 16 µm

Extrusion Gap «S»

For pressure values up to 600 bar and applications up to Ø800 diameter, it is recommended to tolerate the bore diameter as H7 and the rod diameter as f7. In applications larger than Ø800, the extrusion gap value should not exceed 0.12 mm.

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KASTAŞ NO	d (f7)	D (H8)	L (+0.25/-0)	H	C	KASTAŞ CODE
K83-012	12	16.5	3.2	2.8	3	10028973
K83-016	16	20	4.8	4.1	2.5	10028975
K83-020	20	24	4.8	4.1	2.5	10028976
K83-020/1	20.5	25	4	3.5	3	10028977
K83-020/2	20	25	5.3	4.6	3	10028978
K83-025	25	29.2	5	4.3	3	10028981
K83-030	30	34	4.8	4.1	2.5	10028982
K83-035	35	39.5	4.5	3.9	3	10028983
K83-040	40	46	3	2.6	3	10028984
K83-042	42	50	6.4	5.5	3.5	10028985
K83-050	50	58	6.4	5.5	3.5	10028987
K83-055	55	60.4	6.2	5.3	3	10028988
K83-060	60	65.5	5.2	4.5	3	10028989
K83-065	65	70.6	6.2	5.3	3	10028990
K83-070	70	75.6	6.2	5.3	3	10028991
K83-070/1	70	77	5.5	4.7	3	10028992
K83-075	75	82	5.5	4.7	3	10028993
K83-080	80	90	10.5	9.1	4.5	10028994
K83-090	90	110	12.3	10.9	8	10028995
K83-090/1	90	97	5.5	4.7	3	10028996
K83-092	92	97	2.9	2.5	3	10028998
K83-100	100	105.6	6.2	5.3	3	10029000
K83-105	105	112.8	5.8	5.0	3.5	10029001
K83-107	107	112.4	6.2	5.3	3	10029002
K83-109	109	114.6	6.2	5.3	3	10029003
K83-110	110	117	4.7	4.0	3	10029004
K83-115	115	123.6	9	7.8	4	10029005
K83-117	117	122.6	6.2	5.3	3	10029006
K83-120	120	140	12.3	10.9	8	10029007
K83-120/1	120	125	4.2	3.6	3	10029008
K83-122	122	127.6	6.2	5.3	3	10029009
K83-136	136	142.5	6.1	5.2	3.5	10029010
K83-145	145	150	4.2	3.6	3	10029011
K83-147	147	152.6	6.2	5.3	3	10029012
K83-149	149.8	156.3	5.2	4.5	3.5	10029013
K83-162	162	167.6	6.2	5.3	3	10029015
K83-170	170.8	177.4	5.2	4.5	3.5	10029016
K83-212	212	236	12	10.7	9	10029018