

Seal data sheet

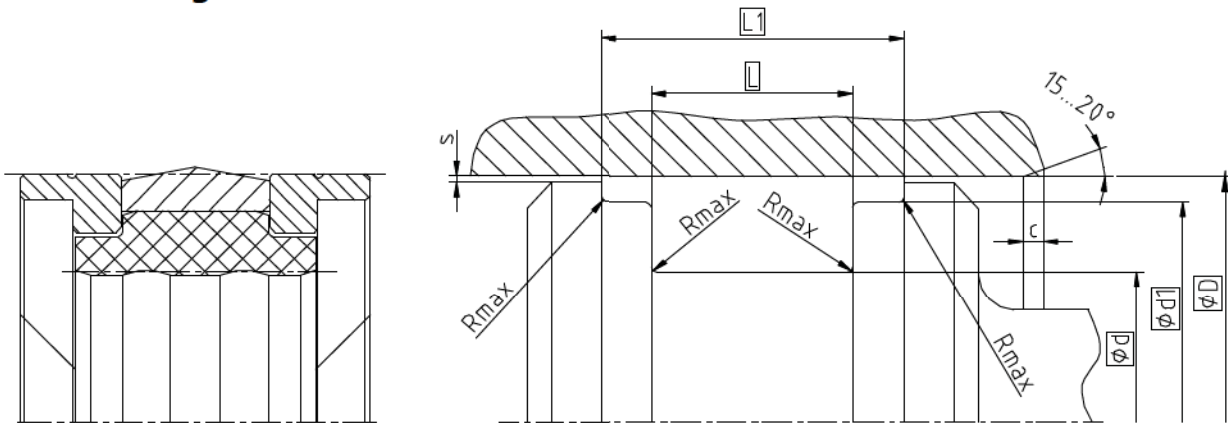
Piston seals

Seal housing

K09-N



2008-09



Surface roughness	Rtmax	Ra
Sliding Surface	≤ 2,5 µm	0,1...0,5 µm
Bottom of groove	≤ 6,3 µm	≤ 1,6 µm
Groove face	≤ 15 µm	≤ 3 µm

Ordering dimensions...□

Bearing area: 50...95% and a cutting depth of 0,5xRz based on Cref = 0%

Standard dimensions

ØD H9	Ød h9	Ød1 h8	L +0,2	L1	Rmax	c	s*
≥ 20 ... < 50	D - 10	D - 3	12,5	20,5	0,4	4	0,35
≥ 50 ... < 80	D - 15	D - 4	20	28	0,4	5	0,52
≥ 80 ... < 150	D - 20	D - 5	25	36	0,4	6	0,65
≥ 150 ... < 400	D - 25	D - 6	32	46	0,4	8,5	0,78
≥ 400 ... < 600	D - 30	D - 8	36	50	0,4	10	1,00

* Extrusion gap applies to a temperature of 70 °C, higher temperatures require lower values.

Operating parameters

Sealing material	Energizer	Backup ring	Temperature	max. speed	max. pressure ¹
ECOPUR®	SKF ECORUBBER-1	SKF ECOTAL SKF ECOMID ²	-30 °C...+100 °C	0,5 m/s	400 bar (40 MPa)
H-ECOPUR™			-20 °C...+100 °C		
S-ECOPUR™			0,7 m/s		
T-ECOPUR™	SKF ECOSIL		-40 °C...+100 °C	0,5 m/s	

The stated operation conditions represent general indications. It is recommended not to use all maximum values simultaneously. Surface speed limits apply only to the presence of adequate lubrication film.

¹ Pressure ratings depend on the size of the extrusion gap.

² ≤ Ø260mm: SKF ECOTAL ; > Ø260mm: SKF ECOMID

Ordering example

K09-N, D=100mm, d=80mm, d1=95 L=25mm, L1=36mm, ECOPUR® / SKF ECORUBBER-1 / SKF ECOTAL

Piston Seal K09-N 100 x 80/95 x 25/36 ECOPUR® / SKF ECORUBBER-1 / SKF ECOTAL
 Profile D x d/d1 x L/L1 Sealing material / Energizer / Backup ring