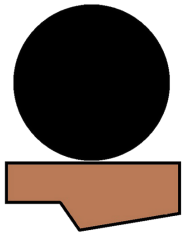
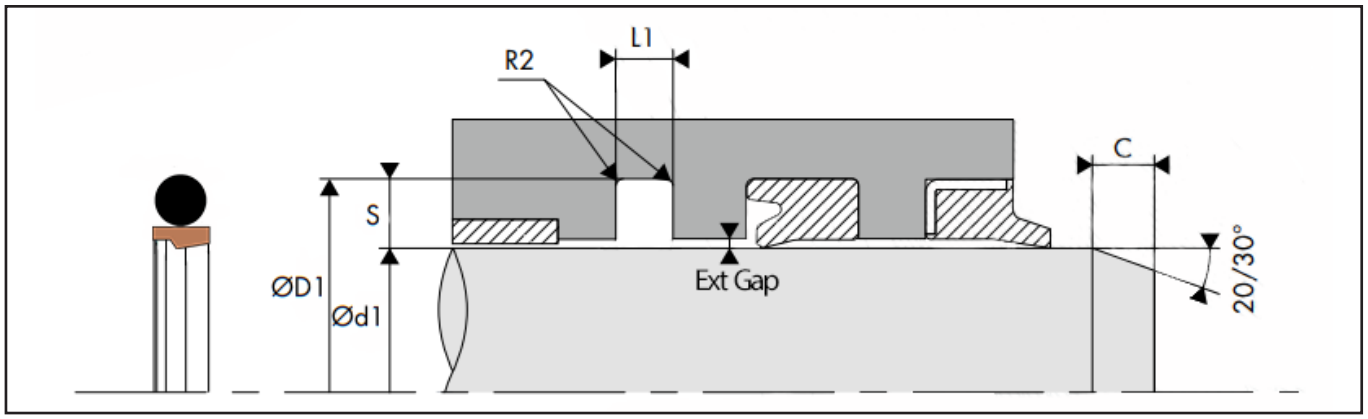
Rod Seals

RGR





TECHNICAL DATA

Temperature	-30°C / +100°C
Pressure	350bar/5100psi
Speed	4.0 m/sec
Media	Mineral hydraulic oils Fire-resistant liquids Biocompatible fluids Water

S (Standard Cross Sections)	**Radius & Chamfers**		**Max Radial Extrusion Gap**		
			BAR/PSI		
	R2 (mm)	**C (mm)**	**100/1450**	**200/2900**	**350/5100**
2.45 - 3.75mm (3/32" - 5/32")	0.4	2.5	0.30mm (0.012")	0.20mm (0.080")	0.15mm (0.006")
>3.75 - 7.75mm (5/32" - 5/16")	1.0	4.5	0.40mm (0.016")	0.25mm (0.010")	0.20mm (0.008")
>7.75 - 10.50mm (5/16 - 7/16")	1.8	6.0	0.50mm (0.020")	0.30mm (0.012")	0.20mm (0.008")
<10.50 - 14.00mm (7/16" - 0.562")	1.8	8.0	0.60mm (0.023")	0.35mm (0.014")	0.25mm (0.010")

TOLERANCES

ØD1	f8
Ød1	H10
L1	-0.00/+0.20mm

SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.05 - 0.2 µm	≤1.6 µm	≤ 3.2 µm
Rz	0.40 - 1.6 µm	≤6.3 µm	≤10.0 µm
Rmax	0.63 - 2.5 µm	≤10.0 µm	≤16.0 µm

MATERIALS

Sealing face
Bronze-filled PTFE
Carbon-filled PTFE
Blue GL PTFE
Energiser
NBR 70 Shore A
FKM 70 Shore A

DESCRIPTION

The RGR profile is a compact rod seal with ultra low friction mainly used in a buffer application. Two piece design has a filled PTFE face with an O-ring energiser available in different rubber compounds.

ADVANTAGES

Optimal sealing in static & dynamic applications
Low friction coefficient; no stick-slip effect

APPLICATIONS

Mobile hydraulics
Injection presses
Machine tools
Presses
Standard cylinders