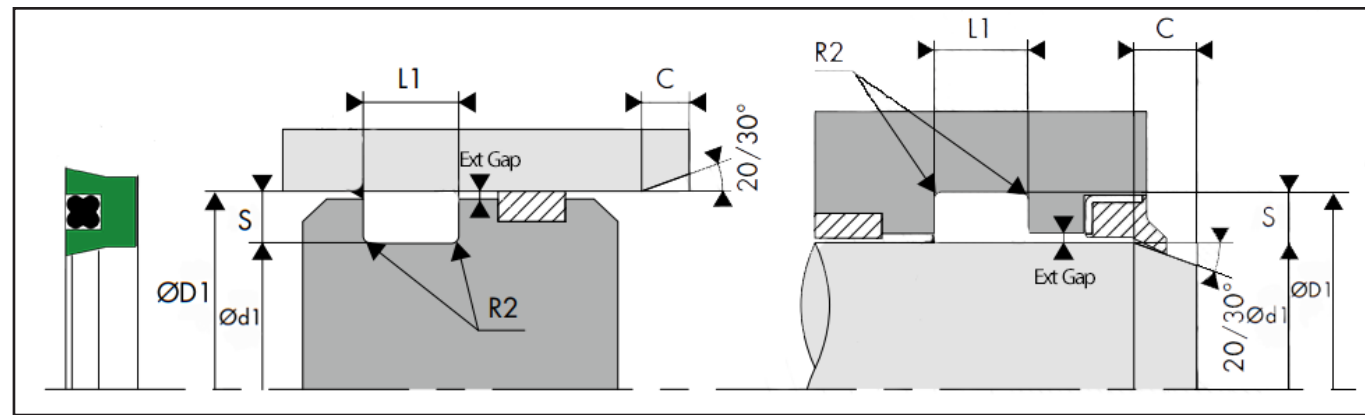
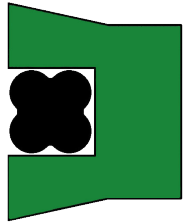


ROD-PISTON SEALS

XPS



TECHNICAL DATA

Temperature	-45°C / +110°C
Pressure	400Bar / 5800PSI
Speed	1.0 m/sec
Media	Mineral hydraulic oils Water based hydraulic oils

TOLERANCES

ØD1	h9
Ød1	H9
L1	-0.010/+0.25mm

MATERIALS

Profiled Seal

U-2150 PU 92A - Green 110°C

Quad Ring

NBR 70 Shore A

S (Standard Cross Sections)	Radius & Chamfers		Max Radial Extrusion Gap		
			BAR/PSI		
	R2 (mm)	C (mm)	160/2300	250/3600	400/5800
0.125" or 3.00mm	0.4	2.0	0.20mm (0.008")	0.10mm (0.004")	N/A
0.156" or 4.00mm	0.4	2.5	0.35mm (0.014")	0.20mm (0.008")	N/A
0.187" or 5.00mm	0.4	2.5	0.35mm (0.014")	0.20mm (0.008")	0.10mm (0.004") *5000 psi Max
0.250" or 6.50mm	0.4	3.0	0.45mm (0.018")	0.25mm (0.010")	0.10mm (0.004")
0.312" or 7.50mm	0.4	4.0	0.50mm (0.020")	0.30mm (0.012")	0.15mm (0.006")
0.375" or 10mm	0.4	5.0	0.50mm (0.020")	0.30mm (0.012")	0.15mm (0.006")
0.500" or 12.50mm	0.4	5.0	0.60mm (0.024")	0.30mm (0.012")	0.20mm (0.008")

SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.1 - 0.4 µm	≤1.6 µm	≤ 3.2 µm
Rz	0.63 - 2.4 µm	≤6.3 µm	≤10.0 µm
Rmax	1.0 - 4.0 µm	≤10.0 µm	≤16.0 µm

DESCRIPTION

The XPS profile is a Symetrical U-Ring type single acting Rod/Piston seal comprised of a profiled polyurethane seal and an NBR Quad Ring energiser to preserve its elastic memory and to help with low pressure sealing. It can be installed back-to-back for double-acting application and a piston 4 arrangement.

ADVANTAGES

Very good sealing at low pressures
Elastic memory preserved using the Quad ring
Excellent flexibility for ease of fitting

APPLICATIONS

Agriculture
Mobile machinery
Lifting systems
Injection presses
Hydraulic cylinders