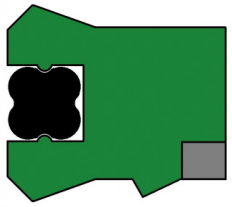
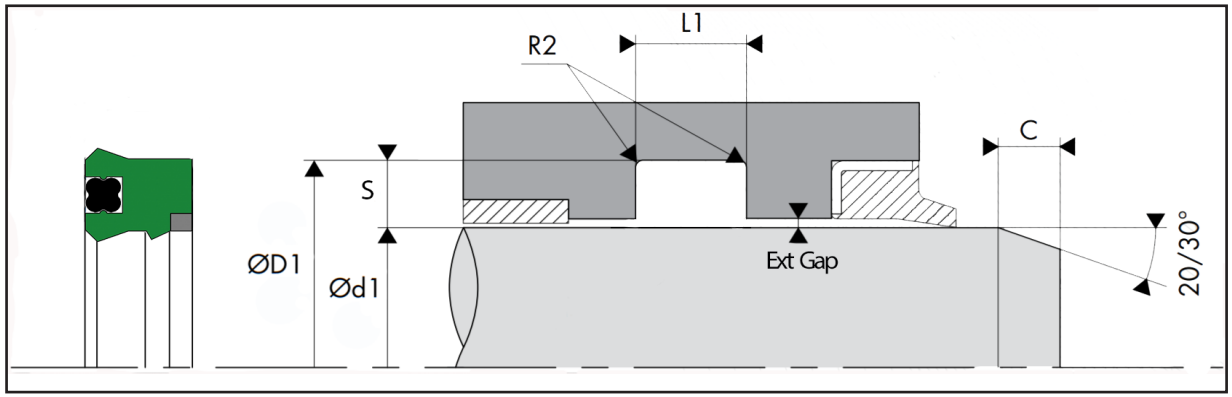
ROD SEALS

XPRA





TECHNICAL DATA

Temperature	-45°C / +110°C
Pressure	10,000 PSI / 690 BAR
Speed	1.0 m/sec
Media	Mineral hydraulic oils Water based hydraulic oils

TOLERANCES

ød1	h9
øD1	H9
L1	+0.010" (+0.25)

MATERIALS

Profiled seal
U-2150 PU 92A - Green 110°C
U-4150 PU 92A - Beige 135°C
Quad ring
NBR 70 Shore A
Anti-extrusion ring
Polyamide

S	Radius & Chamfers		Max Radial Extrusion Gap			
			BAR/PSI			
	R2 (mm)	C (mm)	160/2300	250/3600	400/5800	690/10000
0.187" (4.75mm)	0.4	2.50	0.020" (0.50mm)	0.012" (0.30mm)	0.008" (0.20mm)	0.005" (0.12mm)
0.250" (6.35mm)	0.4	3.00	0.025" (0.63mm)	0.018" (0.45mm)	0.012" (0.30mm)	0.007" (0.17mm)
0.312" (7.92mm)	0.4	4.00	0.035" (0.88mm)	0.028" (0.71mm)	0.016" (0.40mm)	0.010" (0.25mm)
0.375" (9.52mm)	0.4	5.00	0.035" (0.88mm)	0.028" (0.71mm)	0.016" (0.40mm)	0.010" (0.25mm)

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 XPRA is made from High Performance U2150 polyurethane. It is an Asymmetrical Rod Seal. The energised U Ring has an additional sealing lip on the heel for added stability and sealing. The XPRA provides excellent seal ability at low and high pressure due to the integral NBR quad ring and offers very low compression set. The Nylon anti extrusion ring provides additional support, protecting the seal from extruding at high pressures.

ADVANTAGES

Very good sealing at low pressures
Elastic memory of the sealing lips
retained by using a quad ring energiser
Excellent abrasion resistance
High extrusion resistance

APPLICATIONS

Agriculture
Mobile machinery
Lifting systems
Injection presses
Hydraulic cylinders