



## Technical Details

### Metric

### Inch

Operating conditions		
Maximum speed	0.5 m/sec	1.5 ft/sec
Temperature range	-40°C + 110°C	-40°F + 230°F
Maximum pressure	350 Bar	5000 p.s.i

## Maximum extrusion gap

Pressure bar	160	250	350
Maximum gap mm	0.024	0.020	0.016
Pressure p.s.i	2400	3750	5000

## Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface Rod $\varnothing d_1$	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face Rod $\varnothing D_1$	1.6 max	10 max	63 max	70 max
Dynamic sealing surface Piston $\varnothing d_1$	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face Piston $\varnothing D_1$	1.6 max	10 max	63 max	70 max
Static housing faces $L_1$	3.2 max	16 max	125 max	140 max

## Chamfers & Radii

Groove section $\leq S$ in	0.125	0.187	0.250
Min chamfer C in	0.093	0.093	0.125
Max fillet rad $r_1$ in	0.08	0.08	0.016
Max fillet rad $r_2$ in	0.016	0.016	0.032

## DESIGN

PK21 seal design is a loaded U cup utilising a polyurethane or polyester shell energised by a highspecification resilient O ring.

At zero or low pressure, it helps the O ring to increase its sealing force preventing bypass. As pressure rises the sealing force increases and the O ring ensures complete lip actuation under most conditons.

The symmetry of the seal allows it to be used on both rod and piston applications and its flexibility enables easy installation.

## FEATURES

- Excellent resistance to abrasion
- Improves sealing
- Wide range of sizes
- Easy installation
- Compact housing

## MATERIAL

Seal design comes in a variety of materials and sizes. For more information, please refer to MSDS datasheet.

## APPLICATIONS

Light to medium duty applications