



Technical Details **Metric** **Inch**

Operating conditions		
Maximum speed	0.3 m/sec	1.00 ft/sec
Temperature range	-40°C + 110°C	-40°F + 230°F
Maximum pressure	700 Bar	10,000 p.s.i

Maximum extrusion gap

Pressure bar	160	250	500
Maximum gap mm	1.00	0.80	0.40
Pressure p.s.i	2400	3750	7500

Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face	1.6 max	10 max	63 max	70 max
Static Housing faces	3.2 max	16 max	125 max	140 max

Chamfers & Radii

Groove section ≤ Smm	7.5	10.0	12.5
Min chamfer C mm	8.0	10.0	13.0
Max fillet rad r ₁ mm	0.2	0.4	0.8

Tolerances

Ød	ØD	Lmm
h9	H10	+0.2 - 0

DESIGN

PK20 seal design is constructed with a tough wear resistance polyurethane which is loaded with a nitrile energiser.

Sealing face design can be made in various material options which included PTFE or lubricated polyester.

FEATURES

- High shock load capability
- High pressure capability

MATERIAL

Made with high performance polyurethane with low compression set, high modulus elasticity and excellent resistance to abrasion.

APPLICATIONS

The seal can be considered for use in heavy-duty applications when used with a suitable full depth back-up ring.

FLUIDS

Hydraulic fluids & petroleum fuels & oils