



Technical Details

Metric

Inch

Operating conditions		
Maximum speed	1.0 m/sec	3.0 ft/sec
Temperature range	-45°C + 110°C	-50°F + 230°F
Maximum pressure	700 Bar	10,000 p.s.i

Maximum extrusion gap

Pressure bar	160	250	400	500	700
Maximum gap mm	1.0	0.8	0.6	0.4	0.25
Pressure p.s.i	2400	3750	6000	7500	10,000
Maximum gap in	0.040	0.032	0.024	0.016	0.010

Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface ØD ₁ in	0.1-0.4	4 max	4-16	5-18
Static sealing face Ød 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 ≤ S mm	4.0	5.0	7.5	10.0	12.5	15.0
Min chamfer C mm	3.0	3.5	5.0	6.5	7.0	8.0
Max fillet rad R ₁ mm	0.2	0.4	0.8	0.8	0.85	0.8
Groove section ≤ S in	0.125	0.187	0.250	0.312	0.975	0.500
Min chamfer C in	0.093	0.093	0.125	0.156	0.187	0.217
Max fillet rad R ₁ in	0.008	0.008	0.016	0.032	0.032	0.032

DESIGN

PK2SB is an asymmetric piston seal designed to offer effective bore sealing in a wide variety of applications. The outer dynamic lip is shorter and more robust to provide improved sealing and compression set characteristics over conventional U rings.

The seal can be used by itself as a single acting seal or fitted back to back in separate grooves for double acting applications.

FEATURES

- Flexible for easy installation
- Excellent wear resistance
- High resistance to extrusion
- Robust design
- Wide temperature design

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