



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

Operating conditions	Metric	Inch
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

DESIGN

PK19H is a piston seal in slow dynamic and static sealing application. The PK19H spring provides the high progressive spring load - smallest deflection range of all spring types. This makes it ideal for low pressure, vacuum and cryogenic sealing applications.

Maximum extrusion gap

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

The rounded contact surface of the seal lip promotes a thicker lubrication film on the mating sealing surface. This leads to less-wear and longer seal life span.

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

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

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