



Technical Details

Metric

Inch

DESIGN

PK8 is a double acting piston seal that is suited for one piece pistons. It has a PTFE seal face with nitrile energizer and dual face materials which gives pressure capability options.

It is excellent for stick slip and high speed movements. PK8 is not suitable for a cylinder expected to hold position.

FEATURES

- Flexible for easy installation
- Long life
- Comes in a wide range of sizes and materials
- Excellent wear resistance

MATERIAL

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

APPLICATIONS

Light duty applications

Operating conditions		
Maximum speed	1.0 m/sec	3 ft/sec
Temperature range	-40°C + 110°C	40°F + 230°F
Maximum pressure	500 Bar	7500 p.s.i

Maximum extrusion gap

Pressure bar	160	250	400	500
Maximum gap (S < 7) mm	1.0	0.8	0.6	0.4
Maximum gap (S < 7) mm	0.8	0.6	0.4	0.2
Pressure P.s.i	2400	3750	6000	7500

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	3.75	5.50	7.75	10.50
Min chamfer C mm	2.00	2.50	5.00	5.00
Max fillet rad r ₁ mm	0.40	0.80	1.20	1.60
Groove section ≤ S in	0.150	0.220	0.310	0.410
Min chamfer C in	0.080	0.100	0.200	0.200
Max fillet rad r ₁ in	0.016	0.032	0.047	0.063