



Technical Details

Metric

Inch

Operating conditions		
Maximum speed	0.5 m/sec	1.5 ft/sec
Temperature range	-30°C + 100°C	-22°F + 212°F
Maximum pressure	700 Bar	10,000p.s.i

Surface roughness

	μmRa	μmRt	μinCLA	μinRMS
Dynamic sealing surface ØD ₁	0.1 - 0.4	4 max	4-16	5-18
Static sealing face Ød ₁ Ød ₂	1.6 max	10 max	63 max	70 max
Static Housing faces Ød ₃ L ₁ L ₁	3.2 max	16 max	125 max	140 max

Chamfers & Radii

Seal diameter ≤ S mm	5.0	7.5	10.0	12.5	15.0	
Min chamfer C mm	2.5	4.0	5.0	6.5	7.5	
Min chamfer C ₁ mm	1.0	1.0	1.0	1.5	1.5	
Max fillet rad r ₁ mm	0.2	0.2	0.2	0.4	0.4	
Max fillet rad r ₂ mm	0.2	0.2	0.2	0.4	0.4	
Seal diameter ≤ S in	0.187	0.250	0.312	0.375	0.500	0.625
Min chamfer C in	0.093	0.125	0.156	0.187	0.217	0.250
Min chamfer C ₁ in	0.032	0.032	0.032	0.062	0.062	0.062
Max fillet rad r ₁ in	0.008	0.008	0.008	0.008	0.016	0.016
Max fillet rad r ₂ in	0.008	0.008	0.008	0.008	0.016	0.016

Tolerances

	ØD ₁	Ød ₁	d ₂	d ₃	L ₁	L ₂
mm	H11	js11	h9	js11	+0.25 - 0	0 - 0.15
in	H11	js11	h9	js11	+0.035 +0.025	0 - 0.005

DESIGN

PKDA is a double acting piston seal that has a robust heavy duty seal assembly for split pistons. It allows the use of larger clearances and with the use of the bearing rings, is to restrict the piston length.

The seal design consists of a seal and two L shaped bearings. The center of the seal is bonded and is compressed by the housing to obtain an effective low pressure seal.

FEATURES

- Flexible for easy installation
- Well proven design
- Tolerant to contamination
- High pressure capability
- Comes in a wide range of sizes

MATERIAL

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

APPLICATIONS

Light duty applications