



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	400 Bar	6000 p.s.i

Maximum extrusion gap

Pressure bar	160	250	400
Maximum gap mm	0.6	0.5	0.4
Pressure p.s.i	2400	3750	6000

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	4.0	5.0	7.5
Min chamfer C mm	3.0	3.5	5.0
Max fillet rad r ₁ mm	0.2	0.4	0.8
Groove section ≤ S in	0.125	0.187	0.250
Min chamfer C in	0.093	0.093	0.125
Max fillet rad r ₁ in	0.008	0.008	0.016

Tolerances

	Ød	ØD	Lmm
mm	f9	Js11	+0.25 - 0
in	+0.004 -0	0 - 0.002	+0.010 -0

DESIGN

GS1R has symmetrical lips that allows it to be used in both rod and piston applications. The seal design has a deep groove which ensures low friction and linear movement at low pressures. GS1R seal design has multiple bumps used as lubrication ports for low friction.

FEATURES

- Excellent wear resistant
- Flexible easy installation
- High resistance to extrusion
- Wide temperature range
- Low friction
- Improved sealing
- Increased seal stability

MATERIAL

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

APPLICATIONS

Wide variety of applications