



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	0.0410	0.032	0.024	0.016	0.010

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	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	0.8	0.8
Groove section ≤ S in	0.125	0.187	0.250	0.312	0.375	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

Tolerances

Ød	ØD	L ₁ mm	L ₁ in
H9	Js11	+0.25 - 0	+0.010 - 0

DESIGN

GS63 is a high pressure rod seal that comprises of 3 elements; an energiser O-ring, a polyurethane shell and an monyte/motuf anti extrusion ring.

The inner lip of the seal is much shorter and robust and also provides an improved sealing and compression set characteristics.

GS63 provides flexibility for installation and responsiveness to the sealing lip. The energiser, ensures complete lip actuation under all pressure conditions and cushions the seal against shock loads.

FEATURES

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

MATERIAL

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

APPLICATIONS

Medium to heavy duty applications