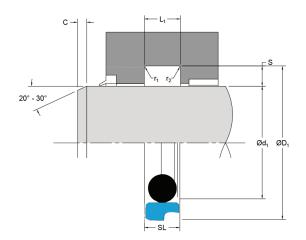




365



Technical Details

Metric

Inch

DESIGN

Operating conditions		
Maximum speed	4.0 m/sec	12.0 ft/sec
Temperature range	-30°C + 100°C	-22°F + 212°F
Maximum pressure	300 Bar	4500 p.s.i

GS9S has a self relieving seal design which prevents pressure from trapping and a simple groove design for easy installation. The self relieving design prevents excessive pressure build up in the cavity between the buffer seal and rod seal.

Maximum extrusion gap

Pressure bar	160	150	250	300
Pressure p.s.i	1500	2400	3750	4500
Max Gap in	0.024	0.020	0.018	0.016

It has a special glide ring that has low frictional properties which are normally associated with this material but is strengtened by additives to reduce creep. GS9S comes in a wide range of materials for special applications.

Surface roughness

	μmRa	μmRt	μinCLA	μinRMS
Dynamic sealing surface Ød	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

FEATURES

- Single acting seal
- Low friction no stick slip
- Simple groove design and installation
- Self relieving design prevents pressure tapping

Chamfers & Radii

Groove section ≤ S in	0.148	0.216	0.305	0.413	0.482
Min chamfer C mm	0.079	0.118	0.197	0.295	0.315
Max fillet rad r mm	0.016	0.031	0.047	0.059	0.059

MATERIAL

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

Tolerances

Ød ₁	ØD ₁	L in
f9	H11	+0.008 - 0

APPLICATIONS

The seal can be considered for use in heavy-duty applications when used with a suitable full depth back-up ring.

