





### **Technical Details**

### Metric

### Inch

250

3750

0.018

### **DESIGN**

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

2400

0.020

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

1500

0.024

300	
4500	
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**

Pressure p.s.i

Max Gap in

	μmRa	μmRt	μinCLA	μinRMS	
Dynamic sealing surface	0.1 - 0.4	4 max	4 - 16	5 - 18	
Ød <sub>1</sub>	0.1 - 0.4	4 IIIdX	4-10	2-10	
Static sealing face ØD <sub>1</sub>	1.6 max	10 max	63 max	70 max	
Static housing faces L	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 <sub>1</sub>	ØD <sub>1</sub>	L <sub>1</sub> 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.

