

Rod Seals

Technical details

Metric

Inch

Operating conditions

Maximum Speed	1.0 m/sec
Temperature Range	-45°C +110°C
Maximum Pressure	400 bar*

3.0 ft/sec
-50°F +230°F
6000 p.s.i.



Maximum extrusion gap

Pressure bar	160
Maximum Gap mm	0.6
Pressure p.s.i.	2400

Figures show the maximum permissible gap all on one side using minimum rod \varnothing and maximum clearance \varnothing .

250	400
0.5	0.4
3750	6000

Surface roughness

	μmRa	μmRt	μinCLA	μinRMS
Dynamic Sealing Face $\varnothing d_1$	0.1 <-> 0.4	4 max	4 <-> 16	5 <-> 18
Static Sealing Face $\varnothing D_1$	1.6 max	10 max	63 max	70 max
Static Housing Faces L_1	3.2 max	16 max	125 max	140 max

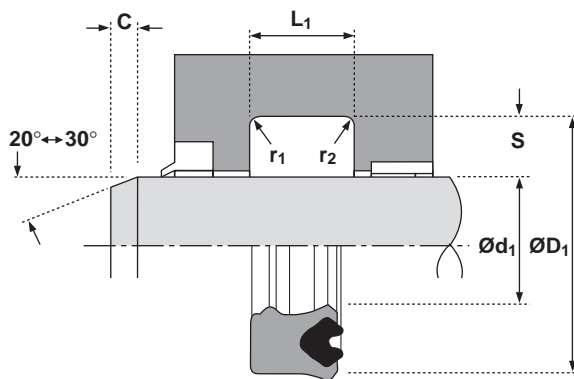
Chamfers & Radii

Groove Section $\leq S$ mm	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	1.2	1.6
Max Fillet Rad r_2 mm	0.4	0.8	1.2	1.2	1.6	2.4
Groove Section $\leq S$ 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
Max Fillet Rad r_2 in	0.016	0.016	0.032	0.047	0.047	0.047

Tolerances

$\varnothing d_1$	$\varnothing D_1$	L_1 mm	L_1 in
f9	Js11	+0.25 -0	+0.010 -0

622



Design

The Hallite 622 is a top of the range medium pressure rod seal. The design of the seal incorporates a unique profiled NBR energiser to ensure complete lip actuation under all pressure conditions and to cushion the seal against shock loadings.

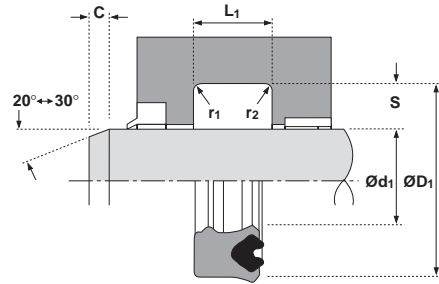
The shell is moulded in Hallite's high performance polyurethane Hythane® 181, ensuring flexibility for installation and performance at low temperatures.

The Hallite 622 also benefits from Hallite's twin lip profile for dry rod sealing.

Features

- Twin lip design offering:
 - Improved sealing,
 - Primary lip protection,
 - Increased seal stability.
- Easy installation

622



Ød ₁	TOL f ₉	ØD ₁	TOL JS11	SL	L ₁ +0.010	PART No.
1.500	-0.0010 -0.0034	1.875	+0.003 -0.003	0.312	0.344	8904010
1.500	-0.0010 -0.0034	2.000	+0.004 -0.004	0.375	0.413	8904110
1.750	-0.0010 -0.0034	2.125	+0.004 -0.004	0.375	0.413	8904210
1.750	-0.0010 -0.0034	2.250	+0.004 -0.004	0.375	0.413	8904310
2.000	-0.0012 -0.0041	2.500	+0.004 -0.004	0.375	0.413	8904410
2.250	-0.0012 -0.0041	2.750	+0.004 -0.004	0.375	0.413	8906310
2.500	-0.0012 -0.0041	3.000	+0.004 -0.004	0.375	0.413	8904510
2.750	-0.0012 -0.0041	3.250	+0.005 -0.005	0.375	0.413	8904910
3.000	-0.0012 -0.0041	3.500	+0.005 -0.005	0.375	0.413	8906410
3.500	-0.0014 -0.0048	4.000	+0.005 -0.005	0.375	0.413	8905010
4.000	-0.0014 -0.0048	4.500	+0.005 -0.005	0.375	0.413	8906510
4.500	-0.0014 -0.0048	5.000	+0.005 -0.005	0.375	0.413	8906610