

Design

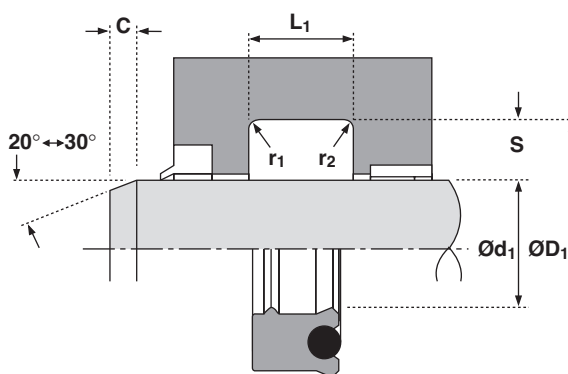
Hallite's 620 design incorporates features from the Hallite 621 to provide a twin lip alternative to Hallite's 500 series products.

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

The 620 benefits from the Hallite's twin lip profile for dry rod sealing.

Features

- Easy installation
- Improved shock handling
- Twin-lip design offering
 - Lower friction
 - Primary lip protection
 - Increased seal stability
- Complete lip actuation



Technical details

Operating conditions

Maximum Speed

Temperature Range

Maximum Pressure

Metric

1.0 m/sec

-45°C +110°C

400 bar*

Inch

3.0 ft/sec

-50°F +230°F

6000 p.s.i.

Maximum extrusion gap

Pressure bar

Maximum Gap mm

Pressure p.s.i.

Maximum Gap in

Figures show the maximum permissible gap all on one side using minimum rod Ø and maximum clearance Ø. Refer to Housing Design section.

160	250	400
0.6	0.5	0.4
2400	3750	6000
0.024	0.020	0.016

Surface roughness

Dynamic Sealing Face ØD₁

Static Sealing Face Ød₁

Static Housing Faces L₁

µmRa

0.1 < > 0.4

µmRt

4 max

10 max

16 max

µinCLA

4 < > 16

63 max

125 max

µinRMS

5 < > 18

70 max

140 max

Chamfers & Radii

Groove Section ≤ S in

Min Chamfer C in

Max Fillet Rad r₁ in

Max Fillet Rad r₂ in

0.125

0.093

0.008

0.016

0.187

0.093

0.008

0.016

Tolerances

Ød₁

f9

ØD₁

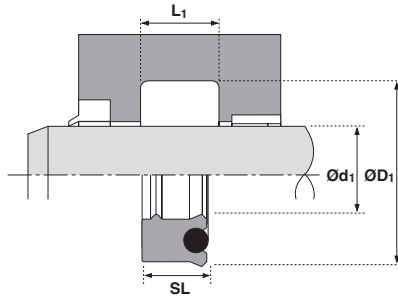
Js11

L₁ in

+0.010 -0



rod seals



Ød ₁	TOL f9	ØD ₁	TOL Js11	SL	L ₁ +0.010 -0	PART No.
0.625	-0.0006 -0.0023	0.875	+0.003 -0.003	0.160	0.176	4498600
0.625	-0.0006 -0.0023	0.875	+0.003 -0.003	0.175	0.190	4528700
0.625	-0.0006 -0.0023	0.875	+0.003 -0.003	0.250	0.275	4459900
0.750	-0.0008 -0.0028	1.000	+0.003 -0.003	0.187	0.207	4583900
0.750	-0.0008 -0.0028	1.000	+0.003 -0.003	0.250	0.275	4498500
0.875	-0.0008 -0.0028	1.125	+0.003 -0.003	0.187	0.207	4709100
1.000	-0.0008 -0.0028	1.240	+0.003 -0.003	0.187	0.217	4477200
1.000	-0.0008 -0.0028	1.250	+0.003 -0.003	0.187	0.207	4457500
1.000	-0.0008 -0.0028	1.250	+0.003 -0.003	0.250	0.275	4498400
1.000	-0.0008 -0.0028	1.375	+0.003 -0.003	0.250	0.275	4410400

Ød ₁	TOL f9	ØD ₁	TOL Js11	SL	L ₁ +0.010 -0	PART No.
1.000	-0.0008 -0.0028	1.375	+0.003 -0.003	0.312	0.344	4584000
1.125	-0.0010 -0.0034	1.375	+0.003 -0.003	0.250	0.275	4461100
1.125	-0.0010 -0.0034	1.500	+0.003 -0.003	0.250	0.275	4410500
1.250	-0.0010 -0.0034	1.500	+0.003 -0.003	0.187	0.207	4398900
1.250	-0.0010 -0.0034	1.500	+0.003 -0.003	0.250	0.275	4461000
1.250	-0.0010 -0.0034	1.625	+0.003 -0.003	0.312	0.344	4410600
1.375	-0.0010 -0.0034	1.750	+0.003 -0.003	0.312	0.344	4410700
1.500	-0.0010 -0.0034	1.875	+0.003 -0.003	0.375	0.413	4750600
1.750	-0.0010 -0.0034	2.125	+0.004 -0.004	0.375	0.413	4460000