

Design

The Hallite 80 rotary pressure seal is a seal designed specifically for use in hydraulic swivel joints.

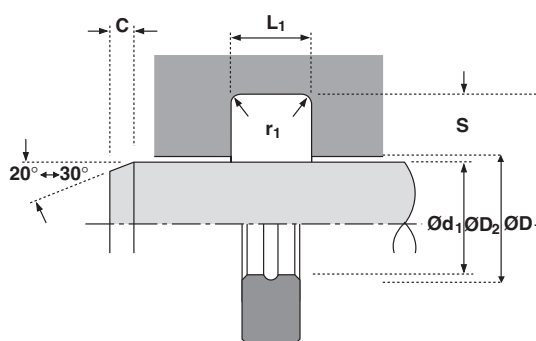
The Hallite 80 is manufactured in Hallite's high specification polyurethane, Hythane[®] 181, to provide ease of installation and excellent sealing characteristics.

The elastic and flexible nature of the Hythane[®] material enables the Hallite 80 to be easily fitted in its groove. The Hallite 80 swivel seal is a one-piece double acting seal and replaces two part seals typically used in swivel joints. The hardwearing nature of Hallite's Hythane[®] material provides long life in service.

Special pressure activation grooves are incorporated in the seal's design to enable an immediate seal of the joint.

Features

- Easy installation into groove
- Replaces two-part seals
- Hardwearing
- Instant sealing
- Excellent service range



Technical details

Operating conditions

Maximum Speed	0.1 m/sec
Temperature Range	-30°C + 80°C
Maximum Pressure	350 bar

Surface roughness

Dynamic Sealing Face Ød ₁	0.1 < > 0.4 µmRa	4 max µmRt
Static Sealing Face ØD ₁	1.6 max	10 max
Static Housing Faces L ₁	3.2 max	16 max

Chamfers & Radii

Groove Section ≤ S mm	5.2
Min Chamfer C mm	2.4
Max Fillet Rad r ₁ mm	0.4

Tolerances

Ød ₁	ØD ₁	ØD ₂	L ₁ mm
f8	H10	H8	+0.3 -0

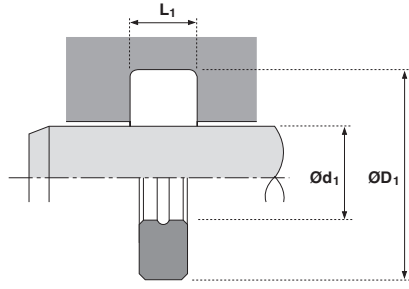
Inch

0.3 ft/sec
-22°F +76°F
5000 p.s.i.

µinCLA	µinRMS
4 < > 16	5 < > 18
63 max	70 max
125 max	140 max



rotary pressure seal



$\varnothing d_1$	TOL f8	$\varnothing D_1$	TOL H10	L_1 +0.3 -0.0	PART No.
57.20	-0.030 -0.076	70.00	+0.14 -0.00	7.50	4563000
80.00	-0.030 -0.076	90.00	+0.14 -0.00	5.00	4563000
90.00	-0.036 -0.090	100.00	+0.14 -0.00	5.00	4563100

$\varnothing d_1$	TOL f8	$\varnothing D_1$	TOL H10	L_1 +0.3 -0.0	PART No.
100.00	-0.036 -0.090	110.00	+0.14 -0.00	5.00	4563200
125.00	-0.043 -0.106	135.40	+0.16 -0.00	5.00	4578800