



Piston Seals

Technical details

Operating conditions

	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6000 p.s.i.



Maximum extrusion gap

Pressure bar	160	250	400
Maximum Gap in	0.024	0.020	0.016
Pressure p.s.i.	2400	3750	6000

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

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

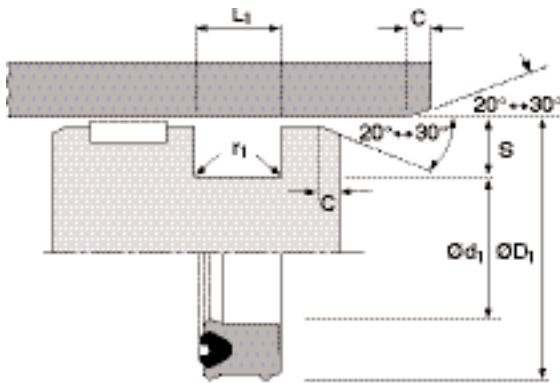
Chamfers & Radii

Groove Section $\leq S$ 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

Tolerances

$\varnothing D_1$	$\varnothing d_1$	L_1
H9	js11	+0.010 -0

656
959



Design

Hallite's 656 is an asymmetric single acting piston seal. Similar in design to the Hallite 621 rod seal, Hallite's 656 offers excellent sealing in light, medium and heavy duty single acting applications.

Manufactured in Hallite's high performance polyurethane Hythane® 181, Hallite 656 is an extremely flexible seal making installation easy.

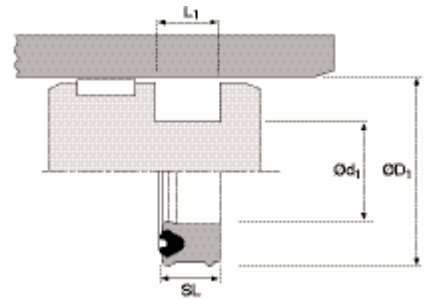
Features

- Twin lip design offering:
 - Lower friction,
 - Improved sealing,
 - Primary lip protection.



Piston Seals inch

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ØD ₁	TOL H9	Ød ₁	TOL js11	SL	L ₁ + 0.010 -0	PART No.
2.000	+0.003 +0.000	1.625	+0.003 -0.003	0.273	0.300	4579200
2.500	+0.003 +0.000	1.875	+0.003 -0.003	0.500	0.550	4522700
2.625	+0.003 +0.000	2.250	+0.003 -0.003	0.273	0.300	4579100
3.250	+0.003 +0.000	2.500	+0.004 -0.004	0.625	0.687	4456700
3.500	+0.003 +0.000	2.750	+0.004 -0.004	0.625	0.687	4461300
4.000	+0.003 +0.000	3.250	+0.004 -0.004	0.625	0.687	4522800

ØD ₁	TOL H9	Ød ₁	TOL js11	SL	L ₁ + 0.010 -0	PART No.
4.500	+0.003 +0.000	3.750	+0.004 -0.004	0.625	0.687	4461400
5.000	+0.004 +0.000	4.250	+0.004 -0.004	0.625	0.687	4522900
5.500	+0.004 +0.000	4.750	+0.005 -0.005	0.625	0.687	4461500
6.000	+0.004 +0.000	5.250	+0.005 -0.005	0.625	0.687	4523000
6.500	+0.004 +0.000	5.750	+0.005 -0.005	0.625	0.687	4523100

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