

Rod/Piston Seals

Technical details

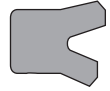
Metric

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	250	400
Maximum Gap mm	0.6	0.5	0.4
Pressure p.s.i.	2400	3750	6000

Figures show the maximum permissible gap all on one side using the 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

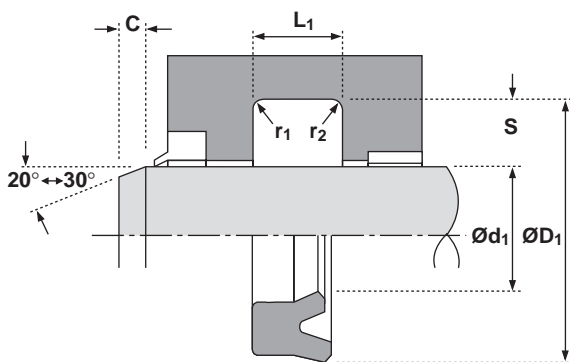
Chamfers & Radii

Groove Section $\leq S$ mm	5.0	7.5	0.250	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

Tolerances

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

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Design

The Hallite 663 is an asymmetric seal offering superlative dry rod sealing for light and medium duty applications.

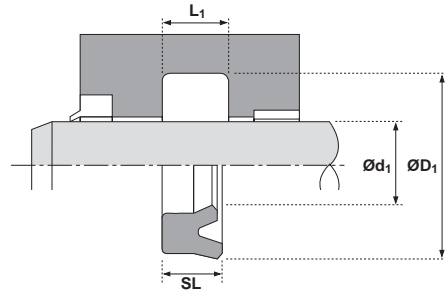
The seal is a single lip modification of the well established Hallite 605 profile and is ideal for applications which require a double lip wiper such as the Hallite 839 or Hallite 846.

Manufactured in Hythane® - 181, the Hallite 663 is an extremely flexible seal making installation very easy.

Features

- Dry rod sealing performance when used with Hallite 839 or 846 wipers
- Easy installation

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$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL JS11	SL	L1 +0.25-0	PART No.
16	-0.016 -0.059	24.0	+0.13 +0.00	5.7	6.3	4789300
18	-0.016 -0.059	26.0	+0.13 +0.00	5.7	6.3	4789400
24	-0.016 -0.059	34.0	+0.13 +0.00	7.8	8.5	4764500
25	-0.016 -0.059	33.0	+0.13 +0.00	5.7	6.3	4789500
26	-0.016 -0.059	36.0	+0.13 +0.00	10.0	11.0	4726000
28	-0.020 -0.072	36.0	+0.16 +0.00	5.7	6.3	4789600
30	-0.020 -0.072	38.0	+0.16 +0.00	8.2	9.0	4789700
35	-0.020 -0.072	43.0	+0.16 +0.00	5.7	6.3	4789800
36	-0.020 -0.072	44.0	+0.16 +0.00	8.0	9.0	4726200
40	-0.020 -0.072	48.0	+0.16 +0.00	5.7	6.3	4789900
40	-0.025 -0.087	48.0	+0.16 +0.00	8.2	9.0	4790000

$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL JS11	SL	L1 +0.25-0	PART No.
40	-0.025 -0.087	50.0	+0.16 +0.00	8.2	9.0	4790100
40	-0.025 -0.087	50.0	+0.16 +0.00	10.0	11.0	4553400
45	-0.025 -0.087	55.0	+0.19 +0.00	7.3	8.0	4790200
50	-0.025 -0.087	57.0	+0.19 +0.00	9.0	10.0	4787400
50	-0.025 -0.087	58.0	+0.19 +0.00	8.2	9.0	4790300
50	-0.025 -0.087	60.0	+0.19 +0.00	7.3	8.0	4726400
55	-0.030 -0.104	67.0	+0.19 +0.00	10.0	11.0	4793800
56	-0.030 -0.104	66.0	+0.19 +0.00	10.0	11.0	4726500
60	-0.030 -0.104	70.0	+0.19 +0.00	10.0	11.0	4726600
65	-0.030 -0.104	75.0	+0.22 +0.00	11.8	13.0	4790400
70	-0.030 -0.104	85.0	+0.22 +0.00	11.4	13.0	4790500