



Single-Acting Polyurethane Combined Rod Seal and Wiper

DESIGN

The Hallite 853 high-performance rod seal and wiper combination is designed specifically for pneumatic applications and to give significant improvements in cylinder performance in low lube air conditions and be used in long and short stroke applications.

The Hallite 853 is manufactured in Hythane® 181, Hallite's high-performance polyurethane, for easy installation, excellent low temperature performance, and long service life.

The material combined with the design of the dynamic sealing lip offers low friction, significantly less than that of a rubber seal, and an ultra-long life.



FEATURES

- Combined rod seal and wiper
- Ultra-long life
- Effective seal
- Low friction

- Hard wearing
- Excellent temperature range
- Easy to install

MATERIALS

As standard, this product comes in the following material. Contact your local Hallite technical team if you would like to find out if this profile can be made in a custom material to suit your application. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Туре	Color
Standard	Hythane® 181	TPU-EU	Blue



NOTE

NOTE

TECHNICAL DETAILS

OPERATING CONDITIONS	METRIC	INCH	
Maximum Speed	0.1 m/sec	0.3 ft/sec	
Temperature Range	-45°C +80°C	-50°F +180°F	
Maximum Pressure	16 bar	230 psi	

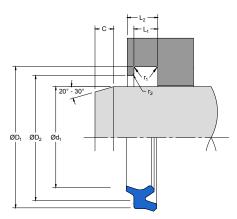
Not designed for scraping ice

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

SURFACE ROUGHNESS	μmRa	μmRz	μmRt	µinRa	µinRz	µinRt
Dynamic Sealing Face Ød1	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face ØD ₁ , ØD ₂	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L ₁	3.2 max	10 max	16 max	125 max	394 max	630 max

CHAMFERS & RADII		
Groove Section ≤S mm	3.00	4.00
Min Chamfer C mm	2.50	3.00
Max Fillet Rad r1 mm	0.20	0.20
Max Fillet Rad r₂ mm	0.40	0.40

TOLERANCES	Ød1	ØD1	ØD2	L ₁
mm	f9	H11	H11	+0.20 -0





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PART NUMBER RANGE

				METRIC				
Ød₁	TOL	ØD ₁	TOL	ØD₂	TOL	L ₁	L ₂	PART
	f9		H11		H11	+0.20 -0		No.
10.00	-0.013	16.00	+0.110	12.50	+0.110	4.00	7.00	4372800
	-0.049		0.000		0.000			
12.00	-0.016	18.00	+0.130	14.50	+0.110	4.00	7.00	4467700
	-0.059		0.000		0.000			
14.00	-0.016	20.00	+0.130	16.50	+0.110	4.00	7.00	4467800
	-0.059		0.000		0.000			
20.00	-0.020	26.00	+0.130	22.50	+0.130	4.00	7.00	4467900
	-0.072		0.000		0.000			
25.00	-0.020	31.00	+0.160	27.50	+0.130	4.00	7.00	4372900
	-0.072		0.000		0.000			
32.00	-0.025	40.00	+0.160	35.00	+0.160	5.00	8.00	4468000
	-0.087		0.000		0.000			

