

GO7 PNEUMATIC SEAL

Single-Acting Polyurethane Piston Seal

DESIGN

The Hallite 607 single-acting piston seal for pneumatic applications is designed to give significant improvements in cylinder performance in low lube air conditions and to be used in long and short stroke applications. The Hallite 607 is well proven in heavy-duty pneumatic applications, such as logging and forestry equipment.

The Hallite 607 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.

The Hallite 607 may be used in single-acting cylinders with a spring return as well as back-to-back as in the double-acting application illustrated in the housing diagram.



FEATURES

- 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

TECHNICAL DETAILS

OPERATING CONDITIONS	METRIC	INCH
Maximum Speed	1.0 m/ sec	3.0 ft/ sec
Temperature Range	-45°C +80°C	-50°F +180°F
Maximum Pressure	16 bar	230 psi

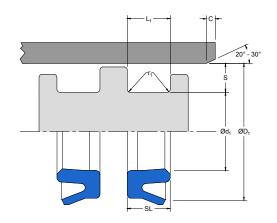
NOTE

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 ØD ₁	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face Ød ₁	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	4.00	5.00	7.50		
Min Chamfer C mm	3.00	3.50	5.00		
Max Fillet Rad r ₁ mm	0.20	0.40	0.80		
Groove Section ≤ S in	0.125	0.187	0.250	0.312	0.375
Min Chamfer C in	0.093	0.093	0.125	0.156	0.187
Max Fillet Rad r ₁ in	0.008	0.008	0.016	0.016	0.032

TOLERANCES	ØD₁	Ød₁	L ₁
mm	H11	js11	+0.25 -0
in	H11	js11	+0.010 -0

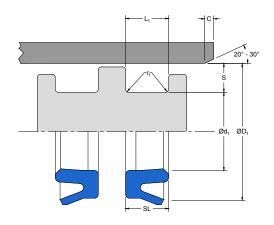




Single-Acting Polyurethane Piston Seal

PART NUMBER RANGE

			INCH			
ØD ₁	TOL	Ød₁	TOL	SL	L,	PART
	H11		js11		+0.010-0	No.
1.500	+0.006	1.187	+0.003	0.156	0.172	4517800
	0.000		-0.003			
1.500	+0.006	1.250	+0.003	0.125	0.138	4517900
	0.000		-0.003			
1.625	+0.006	1.250	+0.003	0.187	0.218	4591700
	0.000		-0.003			
2.000	+0.007	1.625	+0.003	0.187	0.218	4591800
	0.000		-0.003			
2.000	+0.007	1.750	+0.003	0.125	0.138	4518000
	0.000		-0.003			
2.500	+0.007	2.125	+0.004	0.187	0.207	4518100
	0.000		-0.004			
3.000	+0.007	2.375	+0.004	0.312	0.344	4419400
	0.000		-0.004			
3.000	+0.007	2.500	+0.004	0.250	0.275	4518200
	0.000		-0.004			
3.250	+0.009	2.750	+0.004	0.250	0.275	4518300
	0.000		-0.004			
3.250	+0.009	2.812	+0.004	0.225	0.250	4591900
	0.000		-0.004			
4.000	+0.009	3.250	+0.004	0.375	0.413	4447700
	0.000		-0.004			
4.000	+0.009	3.500	+0.004	0.250	0.275	4518400
	0.000		-0.004			
5.000	+0.010	4.250	+0.004	0.375	0.413	4447800
	0.000		-0.004			
5.000	+0.010	4.500	+0.004	0.250	0.275	4560200
	0.000		-0.004			
6.000	+0.010	5.125	+0.005	0.437	0.480	4420500
	0.000		-0.005			
6.000	+0.010	5.375	+0.005	0.312	0.344	4518500
	0.000		-0.005			
6.000	+0.010	5.500	+0.005	0.250	0.275	4518600
	0.000		-0.005			



PART NUMBER RANGE

			INCH			
ØD₁	TOL	Ød₁	TOL	SL	L ₁	PART
	H11		js11		+0.010-0	No.
7.000	+0.010	6.250	+0.005	0.375	0.413	4518700
	0.000		-0.005			
7.000	+0.010	6.375	+0.005	0.312	0.344	4518800
	0.000		-0.005			
8.000	+0.012	7.250	+0.006	0.375	0.413	4421000
	0.000		-0.006			
8.000	+0.012	7.375	+0.006	0.312	0.344	4518900
	0.000		-0.006			
8.000	+0.012	7.500	+0.006	0.250	0.275	4519000
	0.000		-0.006			
10.000	+0.013	9.250	+0.006	0.375	0.413	4422600
	0.000		-0.006			
12.000	+0.013	11.250	+0.006	0.375	0.413	4422700
	0.000		-0.006			

			METRIC			
ØD ₁	TOL	Ød₁	TOL	SL	L ₁	PART
	H11		js11		+0.010-0	No.
32.00	+0.16	24.00	+0.07	5.80	6.50	4366200
	0.00		-0.07			
40.00	+0.16	29.70	+0.07	7.10	8.00	4337900
	0.00		-0.07			
40.00	+0.16	30.00	+0.07	6.80	7.60	4366300
	0.00		-0.07			
50.00	+0.16	40.00	+0.08	7.10	8.50	4326200
	0.00		-0.08			
63.00	+0.19	53.00	+0.10	7.10	8.50	4366400
	0.00		-0.10			
80.00	+0.19	70.00	+0.10	7.10	8.50	4366500
	0.00		-0.10			
100.00	+0.22	85.00	+0.11	9.10	10.40	4366600
	0.00		-0.11			