

667

PNEUMATIC SEAL

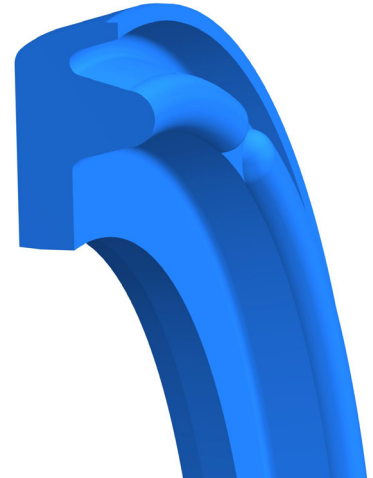
*Single-Acting
Polyurethane Piston Seal
with Bump Stop*

DESIGN

The Hallite 667 polyurethane, single-acting piston seal for pneumatic applications design incorporates buffers to provide additional cushioning for pneumatic cylinders to prevent metal-to-metal contact at the end of the stroke, particularly if the retardation of the piston by the pneumatic cushion is insufficient. In turn, this additional buffering will reduce end stroke noise.

The Hallite 667 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

- Ultra-long life
- Reduces cylinder noise
- 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	Type	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

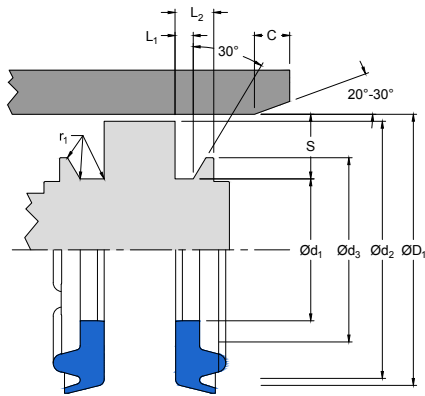
NOTE

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

RADII		
Groove Section $\leq S$ in	0.500	0.750
Min Chamfer C in	0.270	0.315
Max Fillet Rad r_1 in	0.016	0.016

TOLERANCES	ØD_1	Ød_1	Ød_2	Ød_3	L_1	L_2
in	+0.005-0	+0-0.005	+0-0.002	+0-0.005	+0-0.005 -0	± 0.005



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PART NUMBER RANGE

INCH						
ØD_1 +0.002-0	Ød_1 +0-0.005	Ød_2 +0-0.002	Ød_3 +0-0.005	L_1 +0.005-0	L_2 ± 0.005	PART No.
1.500	0.810	1.498	1.050	0.138	0.256	4788800
2.000	1.202	1.998	1.440	0.138	0.256	4779800
2.500	1.640	2.498	1.925	0.157	0.315	4884300
3.250	2.150	3.247	2.550	0.157	0.315	4788900
4.000	2.810	3.995	3.268	0.157	0.315	4789000
5.000	3.525	4.995	4.095	0.197	0.375	4789100
6.000	4.525	5.995	5.095	0.197	0.375	4875100
8.000	6.525	7.995	7.095	0.197	0.375	4875200