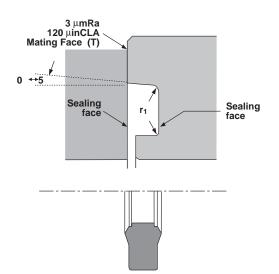
### Flange seals



Technical details	Metric		Inch	
Operating conditions Speed Temperature Range Maximum Pressure	Static -45°C +110°C 600 bar		Static -50°F +230°F 8500 p.s.i.	
<b>Surface roughness</b> Sealing Faces Mating Face	µmRa 0.8 3	μmRt 6.3 20 ÷ 30	μinCLA 32 120	μinRMS 35 120
<b>Radii</b> Max Fillet Rad $r_1$ mm Max Fillet Rad $r_1$ in	0.80 0.03			
<b>Tolerances</b> mm in	ØD <sub>1</sub> ±0.100 +0.005 -0	S ±0.025 ±0.015	L <sub>1</sub> ±0.050 +0.005 -0	L <sub>2</sub> +0 -0.25 +0 -0.010







#### **Material Options**

	last two digits of
Material	part number
Hythane	00
93 IRHD	
Polyurethane (AU)	01

**NB:** Temperature rating for 93 IRHD Polyester Polyurethane (AU) changes to: -30°C +100°C -22°F +212°F

#### Design

The Hallite 657 has been designed especially to fit SAE J518 flanges.

High pressure and pumping are common problems which prevent reliable sealing in applications where O rings are fitted. Hallite's 657 overcomes these.

Manufactured as standard in Hallite's high quality Hythane® 181, the material provides excellent extrusion resistance and is able to perform at both low and high temperatures. The seal's profile is designed to ensure that pumping is prevented and to provide reliable sealing of the flange.

In addition to the high specification material, the Hallite 657 is also manufactured in an industrial standard polyurethane.

Please ensure that the correct part number is specified for the material option that is required. See left for details.

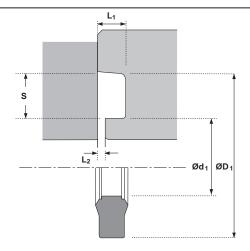
N.B. Also listed, two non-SAE seal sizes for metric flanges.

#### **Features**

- High specification material
- Industrial grade material option
- SAE flange sizes

# Flange seals





657

inch – SAE J518

NOMINAL (SAE J518)	ØD1	TOL	Ød1	S	TOL	L1	TOL	L2	TOL	PART No.
1/2	1.000	+0.005 -0.000	0.670	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000 -0.010	44909
3/4	1.250	+0.005 -0.000	0.920	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000 -0.010	44910
1	1.560	+0.005 -0.000	1.230	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000 -0.010	44911
1 1/4	1.750	+0.005 -0.000	1.420	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000 -0.010	44220
1 1/2	2.125	+0.010 -0.000	1.785	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000 -0.010	44221
2	2.500	+0.010 -0.000	2.160	0.165	+0.010 -0.010	0.110	+0.005 -0.000	0.010	+0.000	44222

## metric

ØD <sub>1</sub>	TOL	Ød <sub>1</sub>	S	TOL	L <sub>1</sub>	TOL	L <sub>2</sub>	TOL	PART No.
33.5	+0.100 -0.100	26.3	3.6	+0.025 -0.025	2.200	+0.050 -0.050	0.25	+0.000 -0.250	44328
45.0	+0.100 -0.100	36.2	4.4	+0.025 -0.025	3.300	+0.050 -0.050	0.25	+0.000 -0.250	44912