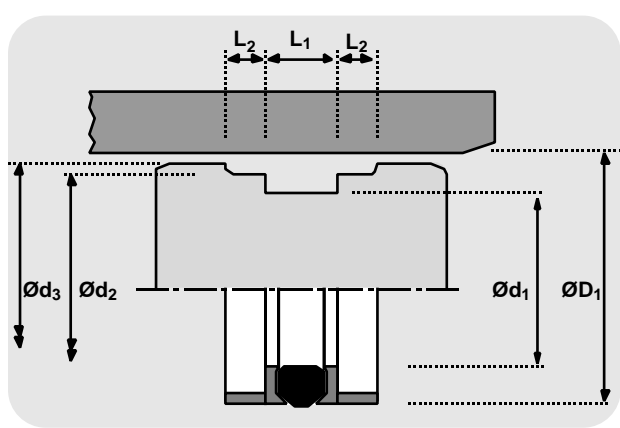


TECHNICAL DETAILS		METRIC	INCH
<b>OPERATING CONDITIONS</b>			
MAXIMUM SPEED	0.5 m/sec	1.5 ft/sec	
TEMPERATURE RANGE	-30°C + 100°C	-22°F + 212°F	
MAXIMUM PRESSURE	350 bar	5000 p.s.i.	
<b>SURFACE ROUGHNESS</b>			
DYNAMIC SEALING FACE $\varnothing D_1$	$\mu\text{mRa}$ 0.1 $\ddot{\text{O}}$ 0.4	$\mu\text{mRt}$ 4 max	$\mu\text{inCLA}$ 4 $\ddot{\text{O}}$ 16
STATIC SEALING FACE $\varnothing d_1$ $\varnothing d_2$	1.6 max	10 max	5 $\ddot{\text{O}}$ 18
STATIC HOUSING FACES $\varnothing d_3$ $L_1$ $L_2$	3.2 max	16 max	63 max 70 max 125 max 140 max
<b>CHAMFERS &amp; RADII</b>			
GROOVE SECTION S mm	4.0	5.0	7.5 10.0
MIN CHAMFER C mm	2.0	2.5	4.0 5.0
MAX FILLET RAD $r_1$ mm	0.4	0.4	0.4 0.4
MAX FILLET RAD $r_2$ mm	0.4	0.4	0.4 0.4
<b>TOLERANCES</b>			
	$\varnothing D_1$	$\varnothing d_1$	$\varnothing d_2$ $\varnothing d_3$ $L_1$ $L_2$
mm	H10	h9	h9 h11 +0.35 +0.1 +0.1 -0



**DESIGN**

The Hallite 50 is a double acting seal designed for light duty applications using either one piece or split pistons to ISO 6547 housings.

It comprises of a rubber seal, two split support rings and two split bearings, located either side of the seal. The nitrile rubber seal has proved itself to be extremely wear resistant in service. It is designed to be compressed by the housing to ensure a low pressure seal and when pressurised be protected from extrusion damage by the extending lips of the support ring. A tough flexible polymer is used for the support ring which is scarf cut for assembly and to protect the seal from damage.

A rectangular reinforced nylon bearing completes the assembly and provides the seal and piston with support and guidance.

The proportions of this range of piston seals have been determined to give a satisfactory performance when used with the recommended operating conditions.

**Note :** Other sizes of this design of seal are shown under Hallite 53, 64 and 68.

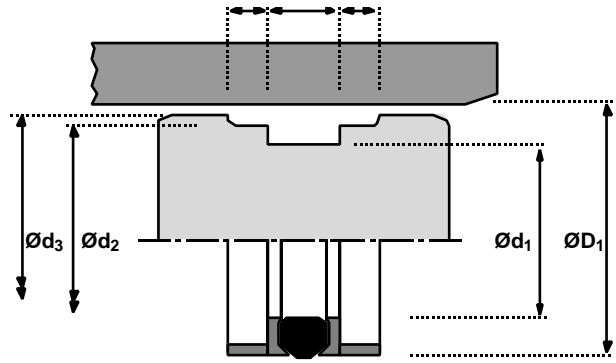
**FEATURES**

- COMPACT GROOVE DESIGN
- EASY ASSEMBLY
- POSITIVE NO DRIFT SEAL

**NB:** Part numbers suffixed by "‡" indicate housing sizes to meet ISO 6547.

Piston seals

50  
metric



ØD <sub>1</sub>	TOL H10	Ød <sub>1</sub>	TOL h9	Ød <sub>2</sub>	TOL h9	Ød <sub>3</sub>	TOL h11	L <sub>1</sub> + 0.35 + 0.1	L <sub>2</sub> + 0.1 - 0	PART No.
25	+0.08 +0.00	17	+0.00 -0.04	22.0	+0.000 -0.052	24.0	+0.00 -0.13	10.0	4.0	6607810‡
32	+0.10 +0.00	24	+0.00 -0.05	29.0	+0.000 -0.052	31.0	+0.00 -0.16	10.0	4.0	6607910‡
40	+0.10 +0.00	32	+0.00 -0.06	37.0	+0.000 -0.062	39.0	+0.00 -0.16	10.0	4.0	6608010‡
50	+0.10 +0.00	40	+0.00 -0.06	47.0	+0.000 -0.062	49.0	+0.00 -0.16	12.5	4.0	6608110‡
63	+0.12 +0.00	53	+0.00 -0.07	60.0	+0.000 -0.074	62.0	+0.00 -0.19	12.5	4.0	2199513‡
80	+0.12 +0.00	65	+0.00 -0.07	76.0	+0.000 -0.074	78.5	+0.00 -0.19	20.0	5.0	6608210‡
100	+0.14 +0.00	85	+0.00 -0.09	96.0	+0.000 -0.087	98.5	+0.00 -0.22	20.0	5.0	6608310‡
125	+0.16 +0.00	105	+0.00 -0.09	120.0	+0.000 -0.087	123.0	+0.00 -0.25	25.0	6.3	6608410‡
140	+0.16 +0.00	120	+0.00 -0.09	135.0	+0.000 -0.087	138.0	+0.00 -0.25	25.0	6.3	2317030
160	+0.16 +0.00	140	+0.00 -0.10	155.0	+0.000 -0.100	158.0	+0.00 -0.25	25.0	6.3	6608510‡