

Design

A robust assembly designed specifically for one piece pistons, the Hallite 780 double acting seal uses a rubber sealing element that has proved itself in service to be extremely wear resistant and capable of working most effectively in a wide range of medium duty applications. The seal is also suitable for two piece pistons.

The assembly comprises a rubber sealing element, two split support rings and two split L-shaped bearings, one of each located either side of the seal.

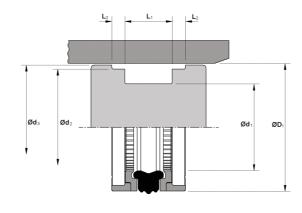
The nitrile rubber sealing element is designed with multi-lips for efficient dynamic sealing with minimal low pressure friction and, when pressurised, be protected from extrusion damage by the extending lips of the support ring. The support ring is manufactured from a tough, flexible polymer and scarf cut for assembly.

Both the L-shaped bearings and support rings are grooved to ensure that the fluid pressure properly energises the sealing element and to prevent the possibility of any pressure trapping within the seal assembly.

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

Features

- Well proven design
- · Long life



Ød₃

h11



Technical details

Operating conditions

Maximum Speed Temperature Range Maximum Pressure

Surface roughness

 $\begin{array}{l} \text{Dynamic Sealing Face } \not \text{Od}_1 \\ \text{Static Sealing Face } \not \text{Od}_1 \not \text{Od}_2 \\ \text{Static Housing Faces } \not \text{Od}_3 \, L_1 \, L_2 \end{array}$

Chamfers & Radii

 $\begin{aligned} & \text{Groove Section} \leq \text{S mm} \\ & \text{Min Chamfer C mm} \\ & \text{Max Fillet Rad } r_1 \text{ mm} \\ & \text{Max Fillet Rad } r_2 \text{ mm} \end{aligned}$

Tolerances mm

Metric

0.5 m/sec -30°C +100°C 400 bar

μmRa	μmRt
0.1 < > 0.4	4 max
1.6 max	10 max
3.2 max	16 max

5.0 7.5 8.0 2.4 4.0 5.0 0.4 0.4 0.4 0.4 0.4 0.4

Inch

+0.2 -0

1.5 ft/sec -22°F +212°F 6000 p.s.i.

μinCLA	μinRMS
4 < > 16	5 < > 18
63 max	70 max
125 max	140 max

10.0	12.5	15.0
5.0	6.5	7.5
0.4	8.0	0.8
0.4	8.0	0.8
I ₁		L ₂

+0.1 -0

