

Design

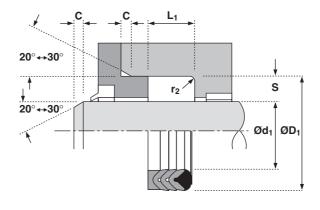
The Hallite 07 is a multi lip rod seal, for medium to heavy duty applications, composed of a header ring, vee rings and a female adaptor.

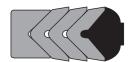
The header ring is the primary seal. It is a bonded construction of a rubberised fabric vee ring and rubber. When installed the section is pre-loaded to seal at low pressure but has the strength and durability of the fabric to operate at higher pressures. Rubberised fabric is also used for the vee rings. These provide secondary sealing as pressure acting on the header ring spreads the vee rings increasing the sealing area. The female adaptor provides the support and protection from extrusion damage. It is manufactured in either polyacetal or hard rubberised fabric. The assembly is a pressure activated packing that does not require any axial pre-load.

The range has a header ring, a female adaptor and 2 vee rings. Other sizes and constructions are available on request.

Features

- Effective Dri-Rod seal under both high and low pressure conditions
- Precision moulded vee rings
- Pressure activated
- · No adjustment necessary





Technical details

Operating conditions

Maximum Speed Temperature Range Maximum Pressure

Maximum extrusion gap

Pressure bar Maximum Gap mm Pressure p.s.i. Maximum Gap in

Surface roughness

Dynamic Sealing Face $\emptyset d_1$ Static Sealing Face $\emptyset D_1$ Static Housing Faces L_1

Chamfers & Radii

Groove Section ≤ S mm Min Chamfer C mm Max Fillet Rad r₁ mm Groove Section ≤ S in Min Chamfer C in Max Fillet Rad r₁ in

Tolerances

Metric

0.5 m/sec -30°C +100°C 700 bar

160

0.4

f9

Inch

400

0.2

+0.25 -0

1.5 ft/sec -22°F +212°F 10,000 p.s.i.

700

0.1

+0.010 -0

Figures show the maximum permissible gap all on one side using minimum rod \emptyset and maximum clearance \emptyset . Refer to Housing Design section.

250

0.3

Js11

2400 0.016	3750 0.012	6000 0.008	10,000 0.004
μmRa	μmRt	μinCLA	μinRMS
0.1 < > 0.4	4 max	4 < > 16	5 < > 18
1.6 max	10 max	63 max	70 max
3.2 max	16 max	125 max	140 max
7.5	10.0	12.5	15.0
4.0	5.0	6.5	7.5
0.8	0.8	0.8	1.6
0.250	0.312	0.375	0.500
0.125	0.156	0.187	0.250
0.031	0.031	0.031	0.031
$Ød_1$	$\emptyset D_1$	L ₁ mm	L ₁ in

