

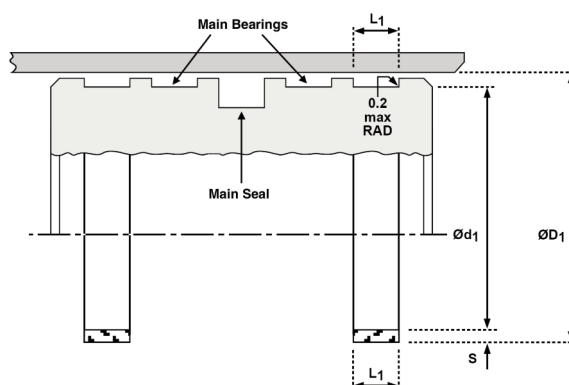
Design

Hallite 88 anti-dieseling rings are fitted to pistons outboard of the main bearings to reduce the possibility of the heat of compression ignition ('dieseling') detonations damaging the main bearings or main piston seal. It is recommended that such rings be installed on the pistons in cylinders that are known to be subjected to shock loading and pressure spikes, for example cylinders on excavators.

Hallite 88 rings are made from a filled PTFE material which is designed to withstand the heat of the compression ignition combustion that can occur in a hydraulic oil/air bubble. They can be used in conjunction with main bearings such as Hallite 506 polyester fabric strip or Hallite 533 GFN bearings, and piston seals such as the Hallite 735.

Features

- Low friction
- Protects main piston bearings and seal from damage
- Easy installation
- Extremely flexible



Technical details

Operating Conditions

Maximum Speed

Temperature Range

Maximum extrusion gap

Pressure bar

Maximum Gap mm

Pressure p.s.i.

Maximum Gap in

Metric

5.0 m/sec

-50°C +200°C

Inch

15.0 ft/sec

-58°F +390°F

Figures show the maximum permissible gap all on one side using minimum rod $\varnothing$ and maximum clearance $\varnothing$.

160	250	400	500
1.0	0.8	0.6	0.5
2400	3750	6000	7500
0.040	0.030	0.024	0.020

Surface Roughness

Dynamic Sealing Face $\varnothing D_1$

Static Housing Faces $\varnothing d_1$ L_1

μmRa

0.4

μmRt

4 max

3.2 max

16 max

$\mu inCLA$

16

125 max

$\mu inRMS$

18

140 max

Tolerances

mm

$\varnothing D_1$

H9

$\varnothing d_1 = \varnothing D_1 - 2S$

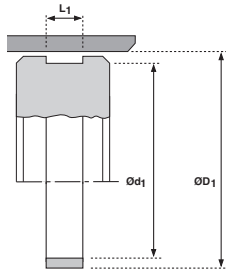
h9

L_1

+0.2 -0



anti-dieseling ring



ØD ₁	Ød ₁	L ₁	PART No.
80	72	6	6667745
90	82	6	6667963
95	87	6	6666739
100	92	6	6666985
105	97	6	6666767
110	102	6	6666963
110	102	8	6666789
115	107	6	6666914
115	107	8	6667355
120	112	8	6666743
120	112	9.5	6667964
125	117	6	6667965
125	117	8	6666733
130	122	8	6666791

ØD ₁	Ød ₁	L ₁	PART No.
130	122	9.5	6667966
135	127	8	6666815
140	132	6	6667967
140	132	8	6666727
140	132	9.5	6667968
142	137	8	6667969
145	137	9.5	6667970
150	142	8	6666841
150	142	9.5	6667971
160	152	9.5	6666863
165	157	9.5	6667972
170	162	9.5	6667973
180	172	9.5	6667974
190	182	9.5	6667975