

Piston Seals

Technical details

Operating conditions

	Metric	Inch
Maximum Speed	2.0 m/sec	6.0 ft/sec
Temperature Range	-40°C + 110°C	-40°F + 230°F
Maximum Pressure	500 bar	7500 p.s.i.



Maximum extrusion gap

Pressure bar	500
Maximum Gap $\varnothing D_1 \leq 5.000$ in	0.032
Maximum Gap $\varnothing D_1 > 5.000$ in	0.040
Pressure p.s.i.	7,500

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

Surface roughness

	μmRa	μmRt	μinCLA	μinRMS
Dynamic Sealing Face $\varnothing D_1$	0.1 < > 0.4	4 max	4 < > 16	5 < > 18
Static Sealing Face $\varnothing d_1$	1.6 max	10 max	63 max	70 max
Static Housing Faces L_1	3.2 max	16 max	125 max	140 max

Chamfers & Radii

Min Chamfer C in	0.250
Max Fillet Rad r_1 in	0.016

Port Diameter

Max $\varnothing H$ in

If the seal is to pass over the port
 $L_1 \times 1.167$

Tolerances

in	$\varnothing D_1$	$\varnothing d_1$	L_1
	+0.005 -0	+0 -0.005	+0.005 -0

Design

The Hallite 714 is a double acting seal capable of passing over ports. The reinforced, heat stabilised, thermoplastic sealing face, expands and contracts to fill the gap between the piston and the cylinder wall and has a step-cut joint for ease of installation.

It will tolerate a considerable extrusion gap, thus reducing the possibility of piston-to-bore contact, and it offers excellent static load holding capability.

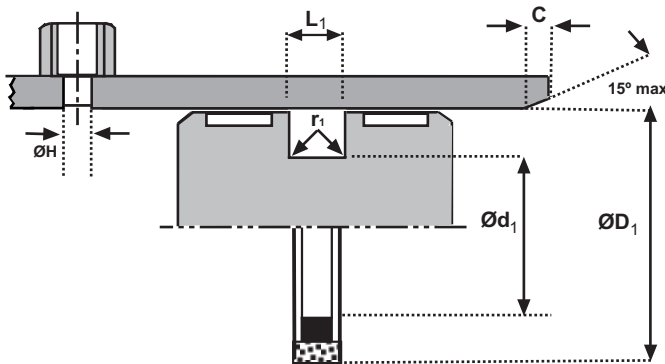
The square section nitrile rubber energiser responds quickly to pressure changes, providing excellent sealing characteristics under all pressure conditions.

Features

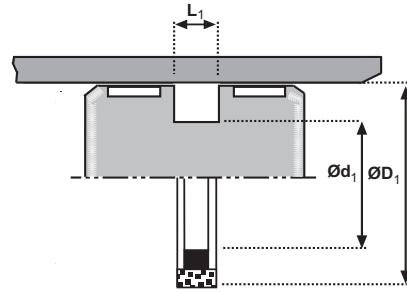
- FACE EXPANDS FOR EASY INSTALLATION
- PASSES OVER PORTS
- EXCELLENT WEAR & ABRASION RESISTANCE
- STATIC LOAD HOLDING CAPABILITY
- REPLACES MULTIPLE PISTON RINGS
- INCREASES CYLINDER EFFECTIVENESS
- IDEAL FOR RE-PHASING CYLINDERS
- INGESTS CONTAMINATION
- COMPACT HOUSING

Material Options

Please contact your local Hallite sales office for additional information



714



ØD_1 +0.005 -0	Ød_1 +0 -0.005	L_1 +0.005 -0	PART No.
2.000	1.462	0.282	7260510
2.250	1.712	0.282	7260710
2.500	1.962	0.282	7261010
2.750	2.212	0.282	7261510
3.000	2.442	0.282	7262010
3.250	2.692	0.282	7262510
3.500	2.942	0.282	7263010
3.750	3.192	0.282	7263510

ØD_1 +0.005 -0	Ød_1 +0 -0.005	L_1 +0.005 -0	PART No.
4.000	3.442	0.282	7264010
4.250	3.692	0.282	7264510
4.500	3.942	0.282	7265010
4.750	4.192	0.282	7265510
5.000	4.442	0.282	7266010
5.250	4.490	0.377	7266510
5.500	4.740	0.377	7267010
6.000	5.240	0.377	7267510