Hallite
Fenner Advanced Sealing Technologies

764

Design

The Hallite 764 is a compact seal for light to medium duty hydraulic cylinders. It is a double acting piston seal with single acting capabilities. This makes it an excellent choice for double acting applications where minimal dynamic leakage is required.

The Hallite 764 comprises of a tough elastomeric face that is pre-loaded by an O ring. The housing width allows a narrow width piston to be used, but it is recommended that an adequate bearing is mounted on one or both sides of the seal.

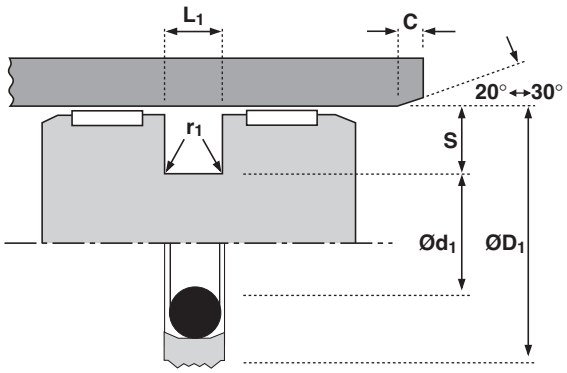
Housing dimensions for use with Hallite 87 and 506 bearing strip are given in the installation details. For further details on bearing strip grooves, please refer to the appropriate data sheets.

NB: Part numbers suffixed by "‡" indicate housing sizes to meet ISO 7425-1.

For full details and availability please contact your local Hallite Sales office.

Features

- Double acting seal with single acting capabilities
- Excellent wear resistance
- High extrusion resistance ideal for use with Hallite 506 or 87
- More tolerant to dirt and contamination than common PTFE faces
- Rapid recovery after assembly
- Advanced face geometry provides enhanced dynamic and static sealing
- ISO 7425 housing



Technical details

	Metric		Inch	
Operating conditions				
Maximum Speed	1.0 m/sec		3.0 ft/sec	
Temperature Range	-30°C + 110°C		-22°F + 230°F	
Maximum Pressure	250 bar		3600 p.s.i.	
Maximum extrusion gap	**Figures show the maximum permissible gap all on one side using minimum rod Ø and maximum clearance Ø. Refer to Housing Design section**			
Pressure bar	100	160	250	
Maximum Gap mm	0.6	0.5	0.4	
Surface roughness	µmRa	µmRt	µinCLA	µinRMS
Dynamic Sealing Face $ØD_1$	0.1 < > 0.4	4 max	4 < > 16	5 < > 18
Static Sealing Face $Ød_1$	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				
Groove Section ≤S mm	3.75	5.50	7.75	10.50
Min Chamfer C mm	2.0	2.5	5.0	5.0
Max Fillet Rad r_1 mm	0.4	0.8	1.2	1.6
Groove Section ≤ S in	0.150	0.220	0.310	0.410
Min Chamfer C in	0.080	0.100	0.200	0.200
Max Fillet Rad r_1 in	0.016	0.032	0.047	0.063
Tolerances	$ØD_1$	$Ød_1$	L_1 mm	L_1in
	H9	h9	+0.2 -0	+0.008-0

piston seals