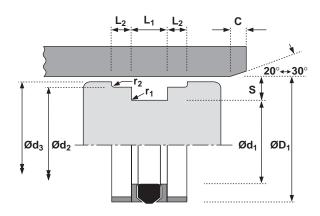
Piston Seals



Technical details	Metric	:			Inch		
Operating conditions Maximum Speed Temperature Range Maximum Pressure	0.5 m/sec -30°C +100°C 500 bar				1.5 ft/sec -22°F +212°F 7500 p.s.i.		
Surface roughness Dynamic Sealing Face ØD ₁ Static Sealing Face Ød ₁ Ød ₂ Static Housing Faces Ød ₃ L ₁ L ₂	µmRa 0.1 ↔ 0.4 1.6 max 3.2 max		µmRt 4 max 10 ma 16 ma	X	µinCLA 4 <> 16 63 max 125 max	µinRMS 5 <> 18 70 max 140 max	
Chamfers & Radii Groove Section ≤ S mm Min Chamfer C mm Max Fillet Rad r ₁ mm Max Fillet Rad r ₂ mm	5.0 2.5 0.4 0.4	(7.5 4.0).4).4	10.0 5.0 0.4 0.4	12.5 6.5 0.8 0.8	15.0 7.5 0.8 0.8	
Tolerances mm	ØD ₁ H10	Ød₁ h9	Ød ₂ h9	Ød₃ h11	L ₁ +0.35 +0.1	L ₂ +0.1 -0	





Design

A robust seal assembly designed specifically for one piece pistons, the Hallite 68 double acting seal uses a rubber sealing element which has proved itself in service to be extremely wear resistant and capable of working most effectively in a wide variety of medium to heavy duty applications. The seal is also suitable for two piece pistons.

The assembly comprises a rubber seal, two split support rings and two split bearings, one of each located either side of the seal. The nitrile rubber seal is designed to have its section compressed by the housing, to ensure a low pressure seal, and when pressurised be protected from extrusion damage by the extending lips of the support ring. The support ring is manufactured from a tough but flexible polymer and scarf cut for assembly.

Polyacetal rectangular section bearings provide the support and guidance for the piston and the other parts of the seal.

NB: All sizes are suitable for the larger radial section housings to ISO 6547 and are suffixed ‡

Other sizes of this design of seal are shown under Hallite 50, 53 and 64.

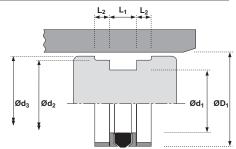
Features

- ISO 6547 Housing
- Compact groove design
- Positive no drift seal

Piston Seals metric







ØD1	TOL H10	Ød1	TOL h9	Ød2	TOL h9	Ød3	TOL h11	L ₁ + 0.35 + 0.1	L ₂ + 0.1 - 0	PART No.		
25	+0.08 +0.00	15	+0.00 -0.04	22.0	+0.000 -0.052	24.0	+0.00 -0.13	12.50	4.0	6594610‡		
32	+0.10 +0.00	22	+0.00 -0.05	29.0	+0.000 -0.052	31.0	+0.00 -0.16	12.50	4.0	2249320‡		
40	+0.10 +0.00	30	+0.00 -0.05	37.0	+0.000 -0.062	39.0	+0.00 -0.16	12.50	4.0	2249420‡		
50	+0.10 +0.00	35	+0.00 -0.06	46.0	+0.000 -0.062	48.5	+0.00 -0.16	20.00	5.0	0074020‡		
63	+0.12 +0.00	48	+0.00 -0.06	59.0	+0.000 -0.074	61.5	+0.00 -0.19	20.00	5.0	6594710‡		
80	+0.12 +0.00	60	+0.00 -0.07	75.0	+0.000 -0.074	78.0	+0.00 -0.19	25.00	6.3	0073830‡		
100	+0.14 +0.00	80	+0.00 -0.07	95.0	+0.000 -0.087	98.0	+0.00 -0.22	25.00	6.3	0083620‡		
125	+0.16 +0.00	100	+0.00 -0.09	119.0	+0.000 -0.087	123.0	+0.00 -0.25	32.00	10.0	0087540‡		
160	+0.16 +0.00	135	+0.00 -0.10	154.0	+0.000 -0.100	158.0	+0.00 -0.25	32.00	10.0	0089930‡		
200	+0.l9 +0.00	170	+0.00 -0.10	192.0	+0.000 -0.115	197.0	+0.00 -0.29	36.00	12.5	1270120‡		
250	+0.19 +0.00	220	+0.00 -0.12	242.0	+0.000 -0.115	247.0	+0.00 -0.29	36.00	12.5	1264320‡		