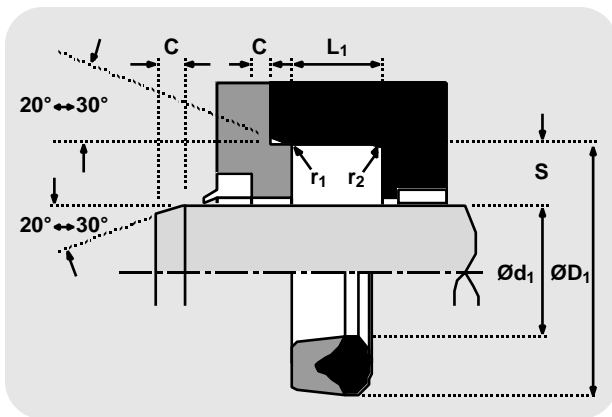


TECHNICAL DETAILS		METRIC	INCH
OPERATING CONDITIONS			
MAXIMUM SPEED	0.5 m/sec	1.5 ft/sec	
TEMPERATURE RANGE	-30°C + 100°C	-22°F + 212°F	
MAXIMUM PRESSURE	300 bar	4500 p.s.i.	
MAXIMUM EXTRUSION GAP			
PRESSURE bar	100	160	250
MAXIMUM GAP mm	0.45	0.4	0.3
PRESSURE p.s.i.	1500	2400	3750
MAXIMUM GAP in	0.018	0.016	0.012
SURFACE ROUGHNESS			
DYNAMIC SEALING FACE $\varnothing d_1$	0.1 \checkmark 0.4	4 max	4 \checkmark 16
STATIC SEALING FACE $\varnothing D_1$	1.6 max	10 max	63 max
STATIC HOUSING FACES L_1	3.2 max	16 max	125 max
CHAMFERS & RADII			
GROOVE SECTION S mm	4.0	5.0	6.0
MIN CHAMFER C mm	2.0	2.5	3.0
MAX FILLET RAD r_1 mm	0.2	0.4	0.8
MAX FILLET RAD r_2 mm	0.4	0.8	1.2
GROOVE SECTION S in	0.250	0.312	0.375
MIN CHAMFER C in	0.125	0.156	0.187
MAX FILLET RAD r_1 in	0.016	0.032	0.032
MAX FILLET RAD r_2 in	0.032	0.047	0.047
TOLERANCES			
$\varnothing d_1$	$\varnothing D_1$	L_1 mm	L_1 in
f9	Js11	+0.25 -0	+0.010 -0



FEATURES

- WELL PROVEN SEAL
- CONTAMINATION RESISTANCE
- GOOD WEAR RESISTANCE

DESIGN

The Hallite 15 rod seal has been well proven in many applications requiring a compact, low friction seal to work efficiently both at low and high pressures.

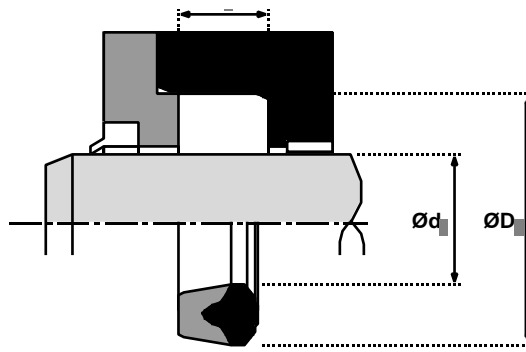
The seal comprises a rubberised fabric U ring to give strength and durability, to which is moulded a rubber header. It is designed to have a controlled pre-load across the angled rubber lips which are accurately machine trimmed, to ensure a good seal at low pressure.

The seal becomes more effective as the pressure increases and the rubberised fabric deforms to the housing increasing the seal contact area. The surface of the fabric has pockets which retain lubrication to reduce friction and wear.

The proportions of the range have been determined to give a satisfactory performance when used with the recommended operating conditions. Many other sizes are available outside this range.

Rod seals

15
metric



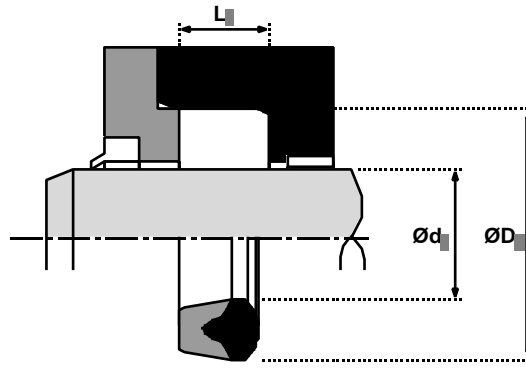
Ød ₁	TOL f9	ØD ₁	TOL Js11	L ₁ +0.25-0	PART No.
15	-0.016 -0.059	25	+0.07 -0.07	9.0	1798200
16	-0.016 -0.059	24	+0.07 -0.07	6.4	2174100
16	-0.016 -0.059	26	+0.07 -0.07	8.0	0754300
18	-0.016 -0.059	26	+0.07 -0.07	6.0	0074800
20	-0.020 -0.072	28	+0.07 -0.07	6.4	2137000
22	-0.020 -0.072	30	+0.07 -0.07	6.4	2137100
22	-0.020 -0.072	32	+0.08 -0.08	9.0	0377300
25	-0.020 -0.072	33	+0.08 -0.08	6.4	2137200
28	-0.020 -0.072	36	+0.08 -0.08	6.4	2137300
28	-0.020 -0.072	40	+0.08 -0.08	9.0	0690700
30	-0.020 -0.072	38	+0.08 -0.08	6.4	2137400
30	-0.020 -0.072	40	+0.08 -0.08	7.5	0032400
32	-0.025 -0.087	40	+0.08 -0.08	6.4	2137500
35	-0.025 -0.087	43	+0.08 -0.08	6.4	2137600
35	-0.025 -0.087	50	+0.08 -0.08	11.0	0874400
36	-0.025 -0.087	44	+0.08 -0.08	6.4	2137700
36	-0.025 -0.087	48	+0.08 -0.08	9.0	0690600
40	-0.025 -0.087	48	+0.08 -0.08	6.4	2137800
40	-0.025 -0.087	50	+0.08 -0.08	7.5	0188600
40	-0.025 -0.087	50	+0.08 -0.08	10.5	1252100
45	-0.025 -0.087	55	+0.10 -0.10	8.0	2137900

Ød ₁	TOL f9	ØD ₁	TOL Js11	L ₁ +0.25-0	PART No.
45	-0.025 -0.087	60	+0.10 -0.10	10.0	1022800
50	-0.025 -0.087	60	+0.10 -0.10	8.0	1204400
55	-0.030 -0.104	65	+0.10 -0.10	8.0	0208700
56	-0.030 -0.104	66	+0.10 -0.10	8.0	2138000
56	-0.030 -0.104	71	+0.10 -0.10	12.0	0332600
60	-0.030 -0.104	70	+0.10 -0.10	8.0	0208500
60	-0.030 -0.104	80	+0.10 -0.10	14.0	0391400
63	-0.030 -0.104	75	+0.10 -0.10	9.6	2138100
65	-0.030 -0.104	77	+0.10 -0.10	9.6	2138200
70	-0.030 -0.104	80	+0.10 -0.10	7.5	0057700
70	-0.030 -0.104	82	+0.11 -0.11	9.6	2146800
70	-0.030 -0.104	85	+0.11 -0.11	12.0	0384500
80	-0.030 -0.104	92	+0.11 -0.11	9.6	2138300
90	-0.036 -0.123	102	+0.11 -0.11	9.6	2138400
90	-0.036 -0.123	105	+0.11 -0.11	9.5	2174600
100	-0.036 -0.123	115	+0.11 -0.11	12.0	2138500
100	-0.036 -0.123	120	+0.11 -0.11	15.0	0466100
110	-0.036 -0.123	125	+0.13 -0.13	12.0	0749300
115	-0.036 -0.123	130	+0.13 -0.13	12.0	2136900
150	-0.043 -0.143	170	+0.13 -0.13	14.0	1704300

Rod seals

15

inch



$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL Js11	L_1 +0.010 -0	PART No.
0.375	-0.0005 -0.0019	0.750	+0.003 -0.003	0.281	0036400
0.750	-0.0008 -0.0028	1.250	+0.003 -0.003	0.375	0893300
0.875	-0.0008 -0.0028	1.375	+0.003 -0.003	0.375	0893800
1.000	-0.0008 -0.0028	1.500	+0.003 -0.003	0.375	0623400
1.250	-0.0010 -0.0034	1.875	+0.003 -0.003	0.437	0332400
1.375	-0.0010 -0.0034	2.000	+0.004 -0.004	0.437	0981500
1.500	-0.0010 -0.0034	2.125	+0.004 -0.004	0.437	0894900
1.625	-0.0010 -0.0034	2.250	+0.004 -0.004	0.437	0895000
1.750	-0.0010 -0.0034	2.375	+0.004 -0.004	0.437	0895100
2.000	-0.0012 -0.0041	2.625	+0.004 -0.004	0.437	0895300
2.250	-0.0012 -0.0041	3.000	+0.004 -0.004	0.562	0897100
2.500	-0.0012 -0.0041	3.000	+0.004 -0.004	0.312	0974500

$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL Js11	L_1 +0.010 -0	PART No.
2.500	-0.0012 -0.0041	3.250	+0.004 -0.004	0.562	0897400
2.750	-0.0012 -0.0041	3.500	+0.004 -0.004	0.562	0897500
3.000	-0.0012 -0.0041	3.625	+0.004 -0.004	0.375	0389100
3.000	-0.0012 -0.0041	3.750	+0.004 -0.004	0.562	0897700
3.250	-0.0014 -0.0048	4.000	+0.004 -0.004	0.562	0897800
3.375	-0.0014 -0.0048	3.875	+0.004 -0.004	0.437	2190500
3.500	-0.0014 -0.0048	4.250	+0.004 -0.004	0.562	0897900
3.750	-0.0014 -0.0048	4.750	+0.005 -0.005	0.750	0898800
4.000	-0.0014 -0.0048	5.000	+0.005 -0.005	0.750	0898900
4.500	-0.0014 -0.0048	5.500	+0.005 -0.005	0.750	0081200
5.000	-0.0017 -0.0056	5.750	+0.005 -0.005	0.500	0179600
6.000	-0.0017 -0.0056	7.000	+0.005 -0.005	0.750	0045400