Vee Pack Sets



Technical details

Operating conditions

Maximum Speed Temperature Range Maximum Pressure

Metric

0.5 m/sec -30°C +100°C 400 bar

Inch

1.5 ft/sec -22°F +212°F 6,000 p.s.i.



Maximum extrusion gap

Pressure bar Maximum Gap mm Pressure p.s.i.

Surface roughness

Dynamic Sealing Face Ød₁ Static Sealing Face ØD₁ Static Housing Faces L₁

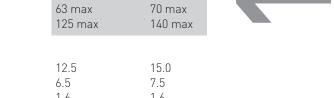
Chamfers & Radii

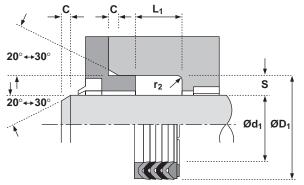
Groove Section ≤ S mm Min Chamfer C mm Max Fillet Rad r₁ mm

Tolerances

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

	100	160	250	400
	0.45	0.4	0.3	0.2
	1500	2400	3750	6000
	µmRa 0.1 ↔ 0.4 1.6 max 3.2 max	µmRt 4 max 10 max 16 max	µinCLA 4 <> 16 63 max 125 max	µinRMS 5 ↔ 18 70 max 140 max
	7.5 4.0 0.4	10.0 5.0 1.2	12.5 6.5 1.6	15.0 7.5 1.6
	Ød ₁ f9	ØD₁ H11	L ₁ mm +0.2 -0	





Design

The Hallite 11 is a vee pack rod seal for medium duty applications offering excellent performance and long life even under difficult operating conditions such as pressure surges, vibration and some misalignment. The seal consists of a male and female adaptor and 5 vee rings. The male adaptor is usually manufactured from polyacetal but some of the larger sizes use rubberised fabric. It has grooves across one face to ensure equal pressure to the sealing edges of the vee ring.

All sizes have three vee rings manufactured from rubberised fabric because this has strength and durability and permits an oil film to lubricate the other parts of the seal. Two rubber vee rings are supplied between the rubberised fabric vee rings (up to and including 140mm diameter) to aid low pressure sealing.

The female adaptor uses a hard rubberised fabric to support the vee rings and protect them from extrusion damage. At high pressure the lips of the adaptor acts as a secondary seal.

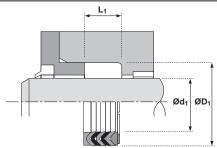
The proportions of the range have been determined to give a satisfactory performance when used with the recommended operating conditions.

Features

- Precision moulded Vee Rings
- Pressure distribution adaptors
- · Reliable sealing



11



Ød ₁	TOL f9	ØD ₁	TOL H11	L ₁ +0.2-0	PART No.
20	-0.020 -0.072	30	+0.13 +0.00	18.50	4201750
25	-0.020 -0.072	37	+0.16 +0.00	22.50	4198950
28	-0.020 -0.072	40	+0.16 +0.00	22.50	4202050
30	-0.020 -0.072	42	+0.16 +0.00	22.50	4202150
32	-0.025 -0.087	44	+0.16 +0.00	22.50	4202250
35	-0.025 -0.087	47	+0.16 +0.00	22.50	4202350
36	-0.025 -0.087	48	+0.16 +0.00	22.50	4202450
40	-0.025 -0.087	52	+0.19 +0.00	22.50	4202550
42	-0.025 -0.087	54	+0.19 +0.00	22.50	4202650
45	-0.025 -0.087	60	+0.19 +0.00	22.50	4202750
50	-0.025 -0.087	65	+0.19 +0.00	22.50	4199050
55	-0.030 -0.104	70	+0.19 +0.00	22.50	4202950
56	-0.030 -0.104	71	+0.19 +0.00	22.50	4203050
60	-0.030 -0.104	75	+0.19 +0.00	22.50	4203150
63	-0.030 -0.104	78	+0.19 +0.00	22.50	4203250

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	Ød ₁	TOL f9	ØD ₁	TOL H11	L ₁ +0.2-0	PART No.
	65	-0.030 -0.104	80	+0.19	22.50	4203350
	70	-0.030 -0.104	85	+0.22 +0.00	22.50	4203450
	75	-0.030 -0.104	90	+0.22 +0.00	22.50	4203550
	80	-0.030 -0.104	95	+0.22 +0.00	22.50	4203650
	85	-0.036 -0.123	100	+0.22 +0.00	22.50	4203750
	90	-0.036 -0.123	105	+0.22 +0.00	22.50	4203850
	100	-0.036 -0.123	115	+0.22 +0.00	30.00	4203950
	110	-0.036 -0.123	125	+0.25 +0.00	30.00	4204050
	125	-0.043 -0.143	140	+0.25 +0.00	34.00	4204250
	140	-0.043 -0.143	155	+0.25 +0.00	34.00	4199250
	150	-0.043 -0.143	170	+0.25 +0.00	40.00	2196650
	160	-0.043 -0.143	180	+0.25 +0.00	40.00	2196750
	180	-0.043 -0.143	200	+0.29 +0.00	40.00	2196850
	200	-0.050 -0.165	220	+0.29 +0.00	40.00	2196950