



Vulcan Seals Type VK1L

Technical Data Sheet



Product Description

The **Vulcan Seals Type VK1L** is a **square-braided packing manufactured from spun aramid fibre**, impregnated with graphite lubricant.

The aramid fibre construction provides **high tensile strength, excellent abrasion resistance, and dimensional stability**, while the graphite impregnation reduces friction, heat generation, and shaft wear during operation.

The ****Vulcan Seals Type VK1L**** is selected for **mechanically demanding sealing duties**, including **abrasive and solids-containing services**, where packing durability, extrusion resistance, and stable sealing performance are required.

Suitable Industries

The Vulcan Seals Type VK1L is suitable for use in:

- ✓ Water
- ✓ Utilities
- ✓ Chemical Processing
- ✓ Environmental Services
- ✓ Mining
- ✓ Automotive
- ✓ Construction
- ✓ Metal & Glass
- ✓ Oil & Gas
- ✓ Power Generation
- ✓ Pulp & Paper
- ✓ Recycling
- ✓ Renewables

The Vulcan Seals Type VK1L is not suitable for use in:

- ✗ Highly aggressive chemical services beyond the stated pH range, where aramid fibres or graphite impregnation may be chemically degraded
- ✗ High-solids slurry duties, where elevated solids content or erosive particle behaviour results in packing wash-out, erosion, or unstable gland control
- ✗ Hygienic or regulated applications, including food, beverage, pharmaceutical, or medical services requiring formal compliance
- ✗ High-purity systems where contamination control or fibre shedding is critical

Chemical Properties

- **Base fibre:** Spun aramid fibre
- Impregnation: Graphite
- Low friction coefficient (≤ 0.12)
- Good resistance to wear and extrusion
- Stable chemical performance across pH 2-12

Why Choose the Vulcan Seals Type VK1L?

- Spun aramid fibre construction for high strength and wear resistance
- Graphite impregnation reduces friction and improves heat dissipation
- Stable performance under pressure and mechanical loading
- Good resistance to abrasion and extrusion in mechanically demanding duties
- Wide pH capability for general industrial service



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	10°C / 50°F	2-12



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
80 bar	12 m/s	2-12



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	0.5 m/s	10°C / 50°F	2-12

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Dimensional Data

Cross Section. Sq (inch)	Packaged Weight (kg)	Packaged Weight (lb)	Packaged Weight (lb) US ONLY	Length of Coil (m)	Product Code	US Product Code
1/8"	0.12	0.265	1	30	VK1L.1/8	VK1L.1/8.1LB
3/16"	0.34	0.750	1	30	VK1L.3/16	VK1L.3/16.1LB
1/4"	0.49	1.080	2	8	VK1L.1/4	VK1L.1/4.2LB
5/16"	0.86	1.896	2	8	VK1L.5/16	VK1L.5/16.2LB
3/8"	1.34	1.630	2	8	VK1L.3/8	VK1L.3/8.2LB
7/16"	1.63	1.900	5	8	VK1L.7/16	VK1L.7/16.5LB
1/2"	1.90	4.190	5	8	VK1L.1/2	VK1L.1/2.5LB
9/16"	2.59	5.711	5	8	VK1L.9/16	VK1L.9/16.5LB
5/8"	3.38	7.453	5	8	VK1L.5/8	VK1L.5/8.5LB
3/4"	4.68	10.319	10	8	VK1L.3/4	VK1L.3/4.10LB
7/8"	6.20	13.671	10	8	VK1L.7/8	VK1L.7/8.10LB
1"	8.00	17.640	10	8	VK1L.1/0	VK1L.1/0.10LB

Please note that the lengths and weights provided are for informational purposes only and are not contractual.

Gland Packing Replacement Range

The Vulcan Seals Type VK1L is a dimensional replacement for the following gland packing ranges:

- Chesterton® | 370
- John Crane® | 804 AR
- Merkel® | 6226
- Texpack® | 4109
- Universal® | 7726
- Chesterton® | 477-1
- John Crane® | SS 6 AR
- Palmetto® | 1300
- Texpack® | 4148
- Chesterton® | 477
- Merkel® | Aroflex
- Sepco® | ML 560
- Texpack® | 5003

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