



Vulcan Seals Type VK5

Technical Data Sheet



Product Description

The **Vulcan Seals Type VK5** is a high-performance braided gland packing manufactured from GORE® PTFE/graphite fibres, reinforced with aramid fibre corner yarns.

The PTFE/graphite fibre body provides low friction, excellent heat dissipation, and reduced shaft wear, while the aramid reinforcement enhances mechanical strength, dimensional stability, and resistance to extrusion under pressure.

The **Vulcan Seals Type VK5** is designed for demanding rotary, reciprocating, and valve applications where reliable sealing performance and controlled friction are required.

Suitable Industries

The Vulcan Seals Type VK5 is suitable for use in:

- ✓ Water and wastewater
- ✓ Chemical processing
- ✓ Pulp and paper
- ✓ Power generation
- ✓ Petrochemical and refining
- ✓ Oil and gas (downstream and utility services)
- ✓ Marine and offshore utilities
- ✓ General industrial services

The Vulcan Seals Type VK5 is not suitable for use in:

- ✗ Highly abrasive or slurry-laden media, Applications requiring FDA or food-grade compliance, Applications requiring zero graphite content.

Chemical Properties

- Base fibre: GORE® PTFE/graphite fibre
- Reinforcement: Aramid fibre (corner yarns)
- Low coefficient of friction (≤ 0.12)
- Good resistance to most acids and alkalis
- Stable across a pH range of 2–12

Why Choose the Vulcan Seals Type VK5?

- GORE® PTFE/graphite fibre construction provides low friction sealing and reduced heat generation
- Aramid fibre corner reinforcement improves extrusion resistance and mechanical stability
- Reduced shaft and sleeve wear supports extended packing life and increased MTBR
- Stable sealing performance under pressure and thermal cycling
- Suitable for higher shaft speeds compared to standard aramid packings



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
40 bar	15 m/s	2 - 12



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	1.5 m/s	10°C / 50°F	2 - 12

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 **All information supplied within, has been given in good faith and in Vulcan Seals' best judgement. It is meant for guidance purposes only. Vulcan Seals reserves the right to amend all statements, dimensions and technical data without prior notice.



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"	0.11	0.243	1	30	VK5.1/8X30MTR	VK5.1/8.1LB
3/16"	0.31	0.684	1	30	VK5.3/16 X30MTR	VK5.3/16.1LB
1/4"	0.44	0.970	2	8	VK5.1/4	VK5.1/4.2LB
5/16"	0.78	1.720	2	8	VK5.5/16	VK5.5/16.2LB
3/8"	1.21	2.668	2	8	VK5.3/8	VK5.3/8.2LB
7/16"	1.46	3.219	5	8	VK5.7/16	VK5.7/16.5LB
1/2"	1.72	3.793	5	8	VK5.1/2	VK5.1/2.5LB
9/16"	2.34	5.160	5	8	VK5.9/16	VK5.9/16.5LB
5/8"	3.01	6.637	5	8	VK5.5/8	VK5.5/8.5LB
3/4"	4.25	9.371	10	8	VK5.3/4	VK5.3/4.10LB
7/8"	5.61	12.370	10	8	VK5.7/8	VK5.7/8.10LB
1"	7.25	15.986	10	8	VK5.1/0	VK5.1/0.10LB

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 VK5 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 270
- Burgmann® | 3394
- Burgmann® | 6430 KS
- Depac® | 722
- James Walker® | Hornet
- John Crane® | 1993
- Merkel® | 6216
- Sepco® | ML 4004
- Texpack® | 4167
- Utex® | 214
- AESSEAL® | 274
- Burgmann® | 5035
- Chemstar (UAS)® | 165-K
- Flexitalic® | 801
- I.M.P.® | 4790
- Latty® | 4757
- Palmetto® | 1359
- Texpack® | 4154
- Teabit® | 2017
- Utex® | 216
- American Branding® | 8000TK
- Burgmann® | 5040
- Crane® | C1064
- James Walker® | 131
- I.M.P.® | 4757
- Merkel® | 6211
- Pillar® | 4529
- Texpack® | 4155
- Teabit® | 5004
- Utex® | 225

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