



Vulcan Seals Type VK4B

Technical Data Sheet



Product Description

The **Vulcan Seals Type VK4B** is a square-braided gland packing manufactured from high-strength **aramid fibre**, impregnated with **PTFE dispersion**.

The aramid fibre construction provides excellent mechanical strength, extrusion resistance, and dimensional stability under load, while the PTFE impregnation reduces friction and frictional heat generation while supporting improved shaft and sleeve protection.

The **Vulcan Seals Type VK4B** is designed for rotary, reciprocating, and static sealing duties where **high mechanical loading** is present and **controlled friction** is required to support stable operation and reduced wear.

Suitable Industries

The Vulcan Seals Type VK4B is suitable for use in:

- Water and wastewater
- Pulp and paper
- Power generation
- Chemical processing
- Utilities and general industry

Chemical Properties

- Base fibre: Aramid fibre
- Impregnation: PTFE dispersion
- Excellent resistance to dilute acids and alkalis
- Stable in aqueous and chemically aggressive services
- Reduced friction compared to non-impregnated aramid constructions.
- Good resistance to chemical degradation under load

Why Choose the Vulcan Seals Type VK4B?

- Aramid fibre construction provides high tensile strength and resistance to extrusion
- PTFE dispersion impregnation reduces friction and frictional heat generation
- Lower friction interface compared to non-impregnated aramid packings
- Improved shaft and sleeve protection, with reduced tendency for scoring during run-in and adjustment
- Maintains structural integrity and sealing stability under pressure cycling
- PTFE impregnation supports smoother operation under intermittent lubrication conditions
- Suitable for mechanically demanding rotary duties within stated operating limits



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	≤1 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"	0.10	0.221	1	8	VK4B.1/8	VK4B.1/8.1LB
3/16"	0.28	0.617	1	8	VK4B.3/16	VK4B.3/16.1LB
1/4"	0.40	0.882	2	8	VK4B.1/4	VK4B.1/4.2LB
5/16"	0.71	1.566	2	8	VK4B.5/16	VK4B.5/16.2LB
3/8"	1.10	1.630	2	8	VK4B.3/8	VK4B.3/8.2LB
7/16"	1.34	1.900	5	8	VK4B.7/16	VK4B.7/16.5LB
1/2"	1.59	3.506	5	8	VK4B.1/2	VK4B.1/2.5LB
9/16"	2.15	4.741	5	8	VK4B.9/16	VK4B.9/16.5LB
5/8"	2.81	6.196	5	8	VK4B.5/8	VK4B.5/8.5LB
3/4"	3.93	8.666	10	8	VK4B.3/4	VK4B.3/4.10LB
7/8"	5.23	11.532	10	8	VK4B.7/8	VK4B.7/8.10LB
1"	6.75	14.884	10	8	VK4B.1/0	VK4B.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 VK4B is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 210
- Burgmann® | 5010
- Chemstar (USA)® | 170
- Flexitalic® | 2002
- I.M.P.® | 35
- Latty® | 4788
- Robco® | 4029
- Utex® | 213
- American Branding® | 300
- Burgmann® | 6426
- Depac® | 720
- James Walker® | 130
- John Crane® | 2001
- Markel® | 6210
- Teadit® | 25
- Utex® | 240
- Burgmann® | 3392
- Burgmann® | Araflon
- Flexitalic® | 2001
- James Walker® | Duramid
- Klinger® | 25
- Pillar® | 4527
- Teadit® | 5000

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