



# Vulcan Seals Type VK4T

## Technical Data Sheet



### Product Description

The **Vulcan Seals Type VK4T** is a square braided PTFE filament packing with aramid fibre corner reinforcement, developed to provide low-friction sealing performance combined with enhanced mechanical strength and extrusion resistance.

The PTFE filament body offers broad chemical compatibility and reduced frictional heat generation, while the aramid-reinforced corners improve structural integrity under pressure, vibration, and fluctuating operating conditions. This construction makes the Vulcan Seals Type VK4T suitable for more demanding duties than standard PTFE packings, particularly where improved dimensional stability and longer service life are required.

### Suitable Industries

The Vulcan Seals Type VK4T is suitable for use in:

- ✔ Chemical processing    ✔ Pulp and paper
- ✔ Water and wastewater    ✔ Power and utilities
- ✔ Oil & gas (general service, non-oxidising media)
- ✔ Mining and minerals (moderate slurry duties)
- ✔ Marine and offshore general service
- ✔ General industrial pump and valve duties

The Vulcan Seals Type VK4T is not suitable for use in:

- ✘ Strong oxidising media at elevated temperatures, Severe abrasive slurry services without adequate flushing, Dry-running or poorly lubricated high-speed duties, Cryogenic or ultra-low temperature applications requiring specialist sealing systems.

### Chemical Properties

- Base fibres: PTFE filament with aramid fibre corner reinforcement
- Construction: Square braid with reinforced corners
- Performance characteristics:
  - Low friction sealing behaviour
  - Improved resistance to extrusion and deformation under pressure
  - Stable performance across a wide chemical range
- Chemical compatibility: Suitable for media within pH 2–14

### Why Choose the Vulcan Seals Type VK4T?

- PTFE filament braid delivers low friction and good chemical resistance, while aramid corner reinforcement enhances extrusion resistance and packing stability.
- Reinforced corners help maintain sealing stress and packing shape under higher pressures and pressure cycling compared to unreinforced PTFE packings.
- Suitable for rotary and reciprocating equipment handling clean to moderately contaminated media.
- Low-friction PTFE body supports controlled heat generation and consistent sealing.
- Suitable across a wide pH range in typical industrial process media.



### Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	-40°C / -40°F	2-14



### Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
50 bar	15 m/s	2-14



### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
120 bar	1.5 m/s	-40°C / -40°F	2-14

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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	8	VK4T.1/8	VK4T.1/8.1LB
3/16"	0.31	0.684	1	8	VK4T.3/16	VK4T.3/16.1LB
1/4"	0.45	0.992	2	8	VK4T.1/4	VK4T.1/4.2LB
5/16"	0.79	1.742	2	8	VK4T.5/16	VK4T.5/16.2LB
3/8"	1.23	2.712	2	8	VK4T.3/8	VK4T.3/8.2LB
7/16"	1.49	3.285	5	8	VK4T.7/16	VK4T.7/16.5LB
1/2"	1.75	3.859	5	8	VK4T.1/2	VK4T.1/2.5LB
9/16"	2.38	5.248	5	8	VK4T.9/16	VK4T.9/16.5LB
5/8"	3.07	6.769	5	8	VK4T.5/8	VK4T.5/8.5LB
3/4"	4.33	9.548	10	8	VK4T.3/4	VK4T.3/4.10LB
7/8"	5.61	12.370	10	8	VK4T.7/8	VK4T.7/8.10LB
1"	7.00	15.435	10	8	VK4T.1/0	VK4T.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 VK4T is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 260
- Chemstar® | 1152K
- Garlock® | 8921-K
- Latty® | 4758
- Sepco® | ML 2225A
- Teadit® | 2003
- Utex® | 217
- American Branding® | 3000TK
- Depac® | 721
- Garlock® | 8921
- Palmetto® | 1340
- Texpack® | 4146
- Teadit® | 5001
- Utex® | 241
- Burgmann® | 3420Crane® | C1061
- Flexitalic® | 802
- John Crane® | 75 AR
- Palmetto® | 1364
- Texpack® | 4163
- Utex® | 215

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