



# Vulcan Seals Type VF225

## Technical Data Sheet



### Product Description

The **Vulcan Seals Type VF225** is a square braided gland packing manufactured from natural hemp fibre, impregnated with PTFE and lubricant.

It is designed for general service and utility sealing duties, offering good conformability, low friction characteristics, and reliable performance in clean and mildly contaminated aqueous services.

The PTFE impregnation improves lubrication, reduces frictional heat, and supports smoother start-up while maintaining stable compression behaviour in service.

### Suitable Industries

The Vulcan Seals Type VF225 is suitable for use in:

- ✔ General Industrial Utilities
- ✔ Water & Wastewater Services
- ✔ Power Utility Auxiliary Systems
- ✔ HVAC & Building Services
- ✔ Marine & Seawater Utility Systems
- ✔ Process Plant Utilities (non-abrasive duties)

The Vulcan Seals Type VF225 is not suitable for use in:

- ✘ Abrasive or slurry media, Fibre-laden services, Strong oxidising acids, Hydrocarbons, fuels, or oil-based duties outside the defined pH range

### Chemical Properties

- Base Fibre: Hemp (natural fibre)
- Impregnation: PTFE with lubricant
- pH Operating Envelope: 4 – 12
- Friction Coefficient:  $\leq 0.14$
- Acid Loss (5% H<sub>2</sub>SO<sub>4</sub>):  $\leq 10\%$
- Ignition Loss:  $\leq 8\%$
- Wear Loss:  $\leq 0.15$  g

### Why Choose the Vulcan Seals Type VF225?

- **Natural hemp fibre braided construction** providing good conformability and gland sealing
- **PTFE impregnation** supporting reduced friction and smoother start-up
- **Defined friction coefficient  $\leq 0.14$**  for controlled wear performance
- Suitable for **general utility and aqueous services** within **pH 4–12**
- **Stable compressibility (15–40%)** supporting gland load retention
- **Cost-effective packing solution** for pumps, valves, and reciprocating duties



### Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	Static Only	-20°C / -4°F	4 - 12



### Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
50 bar	15 m/s	4 - 12



### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
100 bar	2 m/s	-20°C / -4°F	4 - 12

\* All product names, brands and trademarks shown are property of their respective owners, are for identification purposes only, and do not imply affiliation nor endorsement.

\*\*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"	0.10	0.221	1	8	VF225.1/8	VF225.1/8.1LB
3/16"	0.28	0.617	1	8	VF225.3/16	VF225.3/16.1LB
1/4"	0.39	0.860	2	8	VF225.1/4	VF225.1/4.2LB
5/16"	0.70	1.544	2	8	VF225.5/16	VF225.5/16.2LB
3/8"	1.07	2.359	2	8	VF225.3/8	VF225.3/8.2LB
7/16"	1.30	2.867	5	8	VF225.7/16	VF225.7/16.5LB
1/2"	1.54	3.396	5	8	VF225.1/2	VF225.1/2.5LB
9/16"	2.05	4.520	5	8	VF225.9/16	VF225.9/16.5LB
5/8"	2.68	5.909	10	8	VF225.5/8	VF225.5/8.5LB
3/4"	3.70	8.159	10	8	VF225.3/4	VF225.3/4.10LB
7/8"	4.84	10.672	10	8	VF225.7/8	VF225.7/8.10LB
1"	6.25	13.781	10	8	VF225.1/0	VF225.1/0.10LB

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 VF225 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 850
- Burgmann® | Buratex
- Chesterton® | Inner-lube
- James Walker® | 252
- Garlock® | 90
- Palmetto® | 1600
- Teadit® | 2138
- Utex® | 204
- Burgmann® | 767
- Burgmann® | 4002
- Flexitalic® | 30
- James Walker® | Sextant
- Garlock® | 740
- Sepco® | 2
- Teadit® | 35
- Burgmann® | 769
- Chesterton® | 80
- James Walker® | 247
- Garlock® | 18
- Klinger® | 1
- Texpack® | 4121
- Teadit® | 245

® ™ All product names, brands and trademarks shown are property of their respective owners, are for identification purposes only, and do not imply affiliation nor endorsement.

\*\*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.