



Vulcan Seals Type VF4

Technical Data Sheet



Product Description

The **Vulcan Seals Type VF4** is a **PTFE-impregnated jute fibre braided packing** engineered for general service sealing duties in pumps, valves, and reciprocating equipment. The natural jute fibre construction provides good conformability and gland sealing efficiency, while PTFE impregnation reduces friction, improves start-up behaviour, and limits wear on shafts and sleeves.

The **Vulcan Seals Type VR4** is suitable for use in clean aqueous and general utility services operating within moderate chemical exposure and temperature limits. It offers a cost-effective sealing solution for industrial utilities where controlled leakage, ease of installation, and stable packing performance are required.

Suitable Industries

The Vulcan Seals Type VF4 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 VF4 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: Jute (natural fibre)
- Impregnation: PTFE
- pH Operating Envelope: 4–12
- Friction Coefficient: ≤ 0.14
- Acid Loss (5% H₂SO₄): $< 10\%$
- Ignition Loss at 250°C: $\leq 6\%$
- Wear Loss: < 0.15 g

Why Choose the Vulcan Seals Type VF4?

- Jute fibre braided construction providing good conformability and gland sealing
- PTFE impregnation supporting reduced friction and smoother start-up
- Defined friction coefficient ≤ 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	-40°C / -40°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	-40°C / -40°F	4 - 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"	0.10	0.221	1	8	VF4.1/8	VF4.1/8.1LB
3/16"	0.28	0.617	1	8	VF4.3/16	VF4.3/16.1LB
1/4"	0.39	0.860	2	8	VF4.1/4	VF4.1/4.2LB
5/16"	0.70	1.544	2	8	VF4.5/16	VF4.5/16.2LB
3/8"	1.07	2.359	2	8	VF4.3/8	VF4.3/8.2LB
7/16"	1.30	2.867	5	8	VF4.7/16	VF4.7/16.5LB
1/2"	1.54	3.396	5	8	VF4.1/2	VF4.1/2.5LB
9/16"	2.05	4.520	5	8	VF4.9/16	VF4.9/16.5LB
5/8"	2.68	5.909	10	8	VF4.5/8	VF4.5/8.5LB
3/4"	3.70	8.159	10	8	VF4.3/4	VF4.3/4.10LB
7/8"	4.84	10.672	10	8	VF4.7/8	VF4.7/8.10LB
1"	6.25	13.781	10	8	VF4.1/0	VF4.1/0.10LB

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 VF4 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 830
- Apollo® | 2300
- Chemstar® | 525-T
- Flexitalic® | 43
- John Crane® | 867
- I.M.P.® | 99
- Latty® | 1778
- Sepco® | 219
- Teadit® | 2421
- Utex® | 200
- Utex® | 208
- American Branding® | 345
- Burgmann® | 2010
- Chemstar® | 528
- James Walker® | 500
- John Crane® | 1065
- I.M.P.® | 107
- Palmetto® | 1613
- Texpack® | 4130
- Utex® | 155
- Utex® | 201
- Utex® | 233
- American Branding® | 921
- Burgmann® | 3385
- Chesterton® | 329
- James Walker® | Glengarry
- Garlock® | 5413
- Latty® | 60
- Robco® | 4040
- Texpack® | 4161
- Utex® | 165
- Utex® | 206

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