



Vulcan Seals Type VG4

Technical Data Sheet



Product Description

The **Vulcan Seals Type VG4** is a braided gland packing manufactured from **carbon (PAN) fibre**, impregnated with **graphite**. The graphite impregnation provides effective lubrication, reduced friction, and improved heat dissipation, while the carbon fibre structure delivers mechanical strength and dimensional stability. The **Vulcan Seals Type VG4** is suitable for **high-speed rotary applications**, valves, and general utility sealing duties where chemical resistance, thermal stability, and controlled friction are required.

Suitable Industries

The Vulcan Seals Type VG4 is suitable for use in:

- ✔ Water and wastewater
- ✔ Chemical processing
- ✔ Power generation

The Vulcan Seals Type VG4 is not suitable for use in:

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

Chemical Properties

- Base fibre: Carbon (PAN) fibre
- Impregnation: Graphite
- Excellent resistance to acids and alkalis
- Stable across full pH range (0-14)
- Low friction coefficient (≤ 0.15)

Why Choose the Vulcan Seals Type VG4?

- Carbon (PAN) fibre construction provides good mechanical strength and stability
- Graphite impregnation reduces friction and heat generation
- Suitable for higher linear speeds compared to many traditional packings
- Broad chemical compatibility across the full pH range
- Reliable performance in pumps and valve duties



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	10°C / 50°F	0 - 14



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
50 bar	25 m/s	0 - 14



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
100 bar	4 m/s	10°C / 50°F	0 - 14

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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"	0.26	0.573	1	30	VG4.1/8X30MTR	VG4.1/8.1LB
3/16"	0.75	1.654	1	30	VG4.3/16 X30MTR	VG4.3/16.1LB
1/4"	0.29	0.639	2	8	VG4.1/4	VG4.1/4.2LB
5/16"	0.50	1.103	2	8	VG4.5/16	VG4.5/16.2LB
3/8"	0.78	1.720	2	8	VG4.3/8	VG4.3/8.2LB
7/16"	0.93	2.051	5	8	VG4.7/16	VG4.7/16.5LB
1/2"	1.11	2.448	5	8	VG4.1/2	VG4.1/2.5LB
9/16"	1.47	3.241	5	8	VG4.9/16	VG4.9/16.5LB
5/8"	1.93	4.256	5	8	VG4.5/8	VG4.5/8.5LB
3/4"	2.66	5.865	10	8	VG4.3/4	VG4.3/4.10LB
7/8"	3.48	7.673	10	8	VG4.7/8	VG4.7/8.10LB
1"	4.50	9.923	10	8	VG4.1/0	VG4.1/0.10LB

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 VG4 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 310
- Burgmann® | 3250
- Burgmann® | 4010
- Chesterton® | 1
- Chesterton® | TWO
- James Walker® | 489
- John Crane® | 230 GF
- Garlock® | G 200
- Klinger® | 44
- Palmetto® | 1555
- Texpack® | 4134
- Teadit® | 4000
- Utex® | 229
- American Branding® | 8000
- Burgmann® | 6011 A
- Crane® | 1635G
- Chesterton® | 2
- Depac® | 730
- James Walker® | Grafpack
- John Crane® | 1625 G
- Garlock® | G 700
- Latty® | 6000
- Robco® | 3400
- Teadit® | 2001
- Tombo® | 29
- Utex® | 280
- Apollo® | 380
- Burgmann® | Isartherm
- Chemstar® | 160
- Chesterton® | ONE
- Flexitalic® | 301
- John Crane® | 25 GF
- Garlock® | G 100
- I.M.P.® | 40
- Merkel® | 6575
- Sepco® | ML 4500
- Teadit® | 2002
- Tombo® | 40
- Utex® | 690

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