



## Vulcan Seals Type VC51

### Technical Data Sheet



#### Product Description

The **Vulcan Seals Type VC51** is a square braided packing manufactured from high-quality carbon fibre yarns, impregnated with pure graphite, high-temperature lubricants and molybdenum disulphide. The carbon yarns are densely braided to provide a near frictionless, self-lubricating seal, and reinforced with Inconel wire to provide maximum resistance to extrusion. Graphite provides long-lasting, non-migrating lubrication.

The **Vulcan Seals Type VC51** is ideal for **high-pressure static** applications and demanding valve packing duties, offering excellent capability and lasting performance. It is also suitable for **rotary duties** and multi-service use, particularly for **boiler feed** applications.

#### Suitable Industries

The Vulcan Seals Type VC51 is suitable for use in:

- ✓ Power generation / boiler house utilities
- ✓ Industrial process / general manufacturing
- ✓ Water and wastewater
- ✓ Chemical processing (non-oxidising duties)
- ✓ Pulp and paper

#### Chemical Properties

- Base fibre: Carbon fibre
- Impregnation: Graphite with high-temperature lubricants and molybdenum disulphide
- Inconel wire reinforcement provides improved extrusion resistance under high pressure
- Excellent thermal conductivity, aiding heat dissipation in high-temperature duties
- Chemically stable across a wide pH range (0–14)
- Suitable for hot water, steam, and boiler feed applications
- Resistant to chemical attack in non-oxidising process media
- Not recommended for strong oxidising agents

#### Why Choose the Vulcan Seals Type VC51?

- Impregnated with **pure graphite**, high-temperature lubricants, and **molybdenum disulphide**
- **Extended life** in arduous duties
- Ideal for **rotary duties** and multi-service packing, particularly for **boiler feed applications**
- **Inconel wire reinforcement** improves extrusion resistance and stability under load
- \*Denotes ambient operating temperature where the process media remains in liquid form



#### 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	15 m/s	0 - 14



#### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
100 bar	2 m/s	10°C / 50°F	0 - 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"	0.12	0.265	1	8	VC51.1/8	VC51.1/8.1LB
3/16"	0.33	0.728	1	8	VC51.3/16	VC51.3/16.1LB
1/4"	0.47	1.036	2	8	VC51.1/4	VC51.1/4.2LB
5/16"	0.83	1.830	2	8	VC51.5/16	VC51.5/16.2LB
3/8"	1.28	2.822	2	8	VC51.3/8	VC51.3/8.2LB
7/16"	1.55	3.418	5	8	VC51.7/16	VC51.7/16.5LB
1/2"	1.84	4.057	5	8	VC51.1/2	VC51.1/2.5LB
9/16"	2.48	5.468	5	8	VC51.9/16	VC51.9/16.5LB
5/8"	3.24	7.144	10	8	VC51.5/8	VC51.5/8.5LB
3/4"	4.51	9.945	10	8	VC51.3/4	VC51.3/4.10LB
7/8"	6.00	13.230	10	8	VC51.7/8	VC51.7/8.10LB
1"	7.75	17.089	10	8	VC51.1/0	VC51.1/0.10LB

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 VC51 is a dimensional replacement for the following gland packing ranges:

- Chesterton® | 1800
- James Walker® | Valcor XA
- Palmetto® | 4062
- Texpack® | 4137
- Universal® | 7244
- Crane® | 3871
- Garlock® | 127-AFP
- Robco® | 750
- Texpack® | 4138
- Drew® | 600
- Merkel® | Carbosteam
- Sepco® | 310
- Teadit® | 2214

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