



Vulcan Seals Type VC5

Technical Data Sheet



Product Description

The **Vulcan Seals Type VC5** is a high-temperature braided packing manufactured from **carbon fibre** with **graphite impregnation** and a controlled high-temperature lubrication system. The carbon structure provides thermal stability, while the graphite film reduces friction and promotes stable heat transfer at the packing–shaft interface.

Suitable Industries

The Vulcan Seals Type VC5 is suitable for use in:

- ✓ Boiler feedwater and thermal support lines
- ✓ Steam and condensate auxiliary systems
- ✓ Power generation high-temperature non-abrasive valves
- ✓ Refinery elevated-temperature clean services
- ✓ Chemical plant heated utility lines

Chemical Properties

- Base fibre: carbon fibre
- Impregnation: graphite with high-temperature lubricant
- Excellent thermal conductivity and heat dissipation
- Stable in hot aqueous and steam utility environments
- Not recommended for abrasive, slurry or fibre-laden media

Why Choose the Vulcan Seals Type VC5?

- Impregnated with **pure graphite**, high-temperature lubricants, and **molybdenum disulphide**
- Carbon fibre construction provides strong thermal endurance and structural stability
- Graphite lubrication reduces glazing and frictional heat during consolidation
- Good sealing consistency under elevated thermal and pressure cycling
- Designed for boiler house utilities, clean high-temperature rotary duties, and non-abrasive elevated service



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	Max Operating Temperature	pH Range
250 bar	Static Only	-50°C / -58°F	350°C / 662°F	0 - 12



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	Max Operating Temperature	pH Range
30 bar	15 m/s	-50°C / -58°F	350°C / 662°F	0 - 12



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	Max Operating Temperature	pH Range
100 bar	2 m/s	-50°C / -58°F	350°C / 662°F	0 - 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"	0.12	0.265	1	8	VC5.1/8	VC5.1/8.1LB
3/16"	0.33	0.728	1	8	VC5.3/16	VC5.3/16.1LB
1/4"	0.47	1.036	2	8	VC5.1/4	VC5.1/4.2LB
5/16"	0.83	1.830	2	8	VC5.5/16	VC5.5/16.2LB
3/8"	1.28	2.822	2	8	VC5.3/8	VC5.3/8.2LB
7/16"	1.55	3.418	5	8	VC5.7/16	VC5.7/16.5LB
1/2"	1.84	4.057	5	8	VC5.1/2	VC5.1/2.5LB
9/16"	2.48	5.468	5	8	VC5.9/16	VC5.9/16.5LB
5/8"	3.24	7.144	10	8	VC5.5/8	VC5.5/8.5LB
3/4"	4.51	9.945	10	8	VC5.3/4	VC5.3/4.10LB
7/8"	6.00	13.230	10	8	VC5.7/8	VC5.7/8.10LB
1"	7.75	17.089	10	8	VC5.1/0	VC5.1/0.10LB

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 VC5 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 330
- Apollo® | 2200
- Chemstar® | 398
- Chemstar® | 3165
- Flexitalic® | 304
- Pillar® | 6433
- Teadit® | 4002
- Utex® | 609
- American Branding® | 3000G
- Burgmann® | 4020
- Chemstar® | 1398
- Depac® | 740
- Garlock® | 98
- Sepco® | ML 3333
- Tombo® | 9044
- American Branding® | 4000G
- Chemstar® | 90
- Chemstar® | 1430
- Drew® | 600
- Palmetto® | 1585
- Texpack® | 4135
- Utex® | 230

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