



Vulcan Seals Type VG1L

Technical Data Sheet



Product Description

The **Vulcan Seals Type VG1L** is a **graphite and lubricant impregnated glass fibre braided gland packing**, developed for general industrial sealing duties where reliable performance and cost efficiency are required. The glass fibre construction provides good structural stability, while the graphite impregnation assists with heat dissipation and friction reduction in service.

The **Vulcan Seals Type VG1L** is suitable for use in **pumps and valves handling water, steam and a wide range of mild chemical media**, offering dependable sealing performance across a broad pH range. It is commonly selected for utility and plant-wide applications where operating conditions remain within defined pressure, speed and temperature limits.

Suitable Industries

The Vulcan Seals Type VG1L is suitable for use in:

- ✔ General industry utilities
- ✔ Water services (clean / non-abrasive)
- ✔ Light chemical duties (within pH range)
- ✔ Plant-wide gland duties where a glass fibre/graphite packing is acceptable

Chemical Properties

- Base fibre: Glass fibre
- Impregnation: Graphite + lubricant
- Graphite impregnation supports reduced friction and improved heat dissipation versus unfilled glass packings.
- Best suited to clean to mildly contaminated media; glass fibre can be less forgiving on sleeves/shafts if misapplied.

Why Choose the Vulcan Seals Type VG1L?

- **Graphite + lubricant impregnation** helps reduce friction and heat build-up versus dry glass fibre packings
- **Good all-rounder** for mixed utility duties (when abrasion is controlled)
- **Wide pH capability (2-12)** suitable for many water/chemical services



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
300 bar	Static Only	10°C / 50°F	2 - 12



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
30 bar	10 m/s	2 - 12



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
150 bar	1.5 m/s	10°C / 50°F	2 - 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	VG1L.1/8	VG1L.1/8.1LB
3/16"	0.31	0.684	1	8	VG1L.3/16	VG1L.3/16.1LB
1/4"	0.45	0.992	2	8	VG1L.1/4	VG1L.1/4.2LB
5/16"	0.74	1.632	2	8	VG1L.5/16	VG1L.5/16.2LB
3/8"	1.16	2.558	2	8	VG1L.3/8	VG1L.3/8.2LB
7/16"	1.41	3.109	5	8	VG1L.7/16	VG1L.7/16.5LB
1/2"	1.61	3.550	5	8	VG1L.1/2	VG1L.1/2.5LB
9/16"	2.27	5.005	5	8	VG1L.9/16	VG1L.9/16.5LB
5/8"	2.91	6.417	5	8	VG1L.5/8	VG1L.5/8.5LB
3/4"	4.04	8.908	10	8	VG1L.3/4	VG1L.3/4.10LB
7/8"	5.13	11.312	10	8	VG1L.7/8	VG1L.7/8.10LB
1"	6.61	14.575	10	8	VG1L.1/0	VG1L.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 VG1L is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 415
- James Walker® | Fortuna XA
- John Crane® | 1066 AR
- Teadit® | 27 G
- Burgmann® | 3417
- James Walker® | Supeta XA
- Klinger® | 4310
- Teadit® | 8300
- Flexitalic® | 774 L
- John Crane® | 287 I
- Texpack® | 4118

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