



# Vulcan Seals Type VG1D

## Technical Data Sheet



### Product Description

The **Vulcan Seals Type VG1D** is a square braided gland packing manufactured from continuous filament texturised glass fibres, reinforced with Inconel wire and impregnated with graphite. The construction provides improved thermal resistance, mechanical strength, and extrusion control, making the **Vulcan Seals Type VG1D** suitable for high-temperature valve duties and general industrial sealing applications where non-asbestos materials are required.

### Suitable Industries

The Vulcan Seals Type VG1D is suitable for use in:

- ✔ General industrial utilities
- ✔ Power generation and steam services
- ✔ Water and wastewater treatment
- ✔ Chemical processing (non-abrasive media)
- ✔ Refining and petrochemical utilities
- ✔ Steel and metals processing
- ✔ Cement and aggregates utilities
- ✔ Pulp and paper mill utilities
- ✔ District heating and energy distribution systems
- ✔ Marine and offshore auxiliary utility services

### Chemical Properties

- Base Fibre: Glass fibre
- Reinforcement: Inconel wire
- Impregnation: Graphite
- pH Range: 2-12
- Media Compatibility: Steam, water, oils, alkalis, mild acids, and chemicals

### Why Choose the Vulcan Seals Type VG1D?

- Glass fibre construction provides excellent thermal stability
- Inconel wire reinforcement improves pressure resistance and anti-extrusion performance
- Graphite impregnation reduces friction and improves sealing consistency
- Suitable non-asbestos replacement for traditional high-temperature valve packings
- Designed for general industrial utility services



### Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	-100°C / -148°F	2 - 12



### Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
30 bar	7 m/s	2 - 12



### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
100 bar	2 m/s	-100°C / -148°F	2 - 12

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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"	0.12	0.265	1	8	VG1D.1/8	VG1D.1/8.1LB
3/16"	0.31	0.684	1	8	VG1D.3/16	VG1D.3/16.1LB
1/4"	0.49	1.080	2	8	VG1D.1/4	VG1D.1/4.2LB
5/16"	0.86	1.896	2	8	VG1D.5/16	VG1D.5/16.2LB
3/8"	1.34	2.955	2	8	VG1D.3/8	VG1D.3/8.2LB
7/16"	1.63	3.594	5	8	VG1D.7/16	VG1D.7/16.5LB
1/2"	1.90	4.190	5	8	VG1D.1/2	VG1D.1/2.5LB
9/16"	2.59	5.711	5	8	VG1D.9/16	VG1D.9/16.5LB
5/8"	3.38	7.453	5	8	VG1D.5/8	VG1D.5/8.5LB
3/4"	4.68	10.319	10	8	VG1D.3/4	VG1D.3/4.10LB
7/8"	6.20	13.671	10	8	VG1D.7/8	VG1D.7/8.10LB
1"	8.00	17.640	10	8	VG1D.1/0	VG1D.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 VG1D is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 410
- Klinger® | 4310
- Teadit® | 2027
- Flexitalic® | 774 D
- Texpack® | 4119
- Teadit® | 6004
- James Walker® | Incoval X
- Teadit® | 27 GA

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