



# Vulcan Seals Type VP1

## Technical Data Sheet



### Product Description

The **Vulcan Seals Type VP1** is a premium square-braided gland packing manufactured from expanded PTFE fibre blended with graphite and treated with a high-temperature lubricant.

The PTFE/graphite fibre construction provides excellent chemical resistance across the full pH range, combined with low friction characteristics and good thermal conductivity. The graphite content enhances heat dissipation at the shaft or stem interface, supporting stable operation and reduced wear under demanding service conditions.

The **Vulcan Seals Type VP1** is suitable for static, rotary, and reciprocating sealing duties where reliable sealing performance, dimensional stability, and long service life are required in chemically aggressive environments.

### Suitable Industries

The Vulcan Seals Type VP1 is suitable for use in:

- ✓ Chemical processing
- ✓ Petrochemical and refining
- ✓ Pulp and paper
- ✓ Power generation
- ✓ Water and wastewater
- ✓ General industrial services

The Vulcan Seals Type VP1 is not suitable for use in:

- ✗ Highly abrasive slurries with coarse or hard solids, Services where extrusion control cannot be managed through gland design, Applications exceeding declared pressure or speed limits

### Chemical Properties

- Base fibre: Expanded PTFE fibre blended with graphite
- Graphite content: ≥15 %
- Lubricant content: ≥18 %
- Friction coefficient: ≤0.12
- pH resistance: 0–14

### Why Choose the Vulcan Seals Type VP1?

- Chemically inert across the full pH range (0–14)
- Low coefficient of friction for smooth running and reduced heat generation
- Graphite content improves thermal conductivity and packing stability
- Good abrasion resistance compared with conventional PTFE packings
- Suitable for static, rotary, and reciprocating duties
- Consistent, uniform braid structure for reliable installation and performance



### Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	Static Only	-200°C / -328°F	0 - 14



### Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
30 bar	22 m/s	0 - 14



### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
100 bar	2 m/s	-200°C / -328°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"	0.11	0.243	1	8	VP1.1/8	VP1.1/8.1LB
3/16"	0.31	0.684	1	8	VP1.3/16	VP1.3/16.1LB
1/4"	0.44	0.970	2	8	VP1.1/4	VP1.1/4.2LB
5/16"	0.78	1.720	2	8	VP1.5/16	VP1.5/16.2LB
3/8"	1.21	2.668	2	8	VP1.3/8	VP1.3/8.2LB
7/16"	1.46	3.219	5	8	VP1.7/16	VP1.7/16.5LB
1/2"	1.72	3.793	5	8	VP1.1/2	VP1.1/2.5LB
9/16"	2.34	5.160	5	8	VP1.9/16	VP1.9/16.5LB
5/8"	3.01	6.637	5	8	VP1.5/8	VP1.5/8.5LB
3/4"	4.25	9.371	10	8	VP1.3/4	VP1.3/4.10LB
7/8"	5.61	12.370	10	8	VP1.7/8	VP1.7/8.10LB
1"	7.25	15.986	10	8	VP1.1/0	VP1.1/0.10LB

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 VP1 is a dimensional replacement for the following gland packing ranges:

- American Branding® | 8000T
- Burgmann® | 6230
- Chemstar® | 165
- James Walker® | 193
- I.M.P.® | 25
- Latty® | 4308
- Palmetto® | 1389
- Robco® | 1140
- Texpack® | 4151
- Universal® | 7120 E
- Apollo® | 3300
- Burgmann® | Thermoflon
- Flexitalic® | 702
- James Walker® | Fluograph
- Klinger® | 49
- Merkel® | Unival
- Palmetto® | VA1389
- Sepco® | ML 4002
- Teadit® | 16
- Utex® | 210
- Burgmann® | 3369
- Burgmann® | 3435
- Flexitalic® | 1065
- Garlock® | 5100
- Latty® | 4207
- Merkel® | 6323
- Pillar® | 6118
- Texpack® | 4141
- Tombo® | 9038

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