



# Vulcan Seals Type VT9D

## Technical Data Sheet



### Product Description

The **Vulcan Seals Type VT9D** is a high-purity **PTFE filament braided packing**, manufactured from multi-filament PTFE yarns and **vacuum impregnated with PTFE dispersion**. This process ensures excellent chemical resistance, low friction characteristics, and consistent performance across a wide pH range.

The inter-braided construction provides dimensional stability and good consolidation within the stuffing box, making THE Vulcan Seals Type VT9D suitable for **general-purpose chemical duties**, particularly in **valves, low-speed pumps, mixers, and reciprocating equipment**.

The **Vulcan Seals Type VT9D** offers a cost-effective alternative to moulded or machined PTFE rings, while maintaining reliable sealing performance in chemically aggressive environments.

### Suitable Industries

The Vulcan Seals Type VT9D is suitable for use in:

- ✓ Chemical processing
- ✓ Water and wastewater
- ✓ Pulp and paper
- ✓ Power and utilities
- ✓ Oil & gas (general service, non-oxidising media)
- ✓ Mining and minerals (moderate slurry duties)
- ✓ Marine and offshore general service
- ✓ General industrial pump and valve duties

The Vulcan Seals Type VT9D is not suitable for use in:

- ✗ Molten or highly reactive alkali metals
- ✗ Elemental fluorine and fluorinating agents
- ✗ High-speed rotating equipment where graphite-based packings are preferred

### Chemical Properties

- Base fibre: PTFE filament yarn
- Impregnation: PTFE dispersion
- Density:  $\geq 1.40 \text{ g/cm}^3$
- Coefficient of friction:  $\leq 0.14$
- Ignition loss (260 °C):  $\leq 3.0 \%$
- Abrasion loss:  $\leq 0.3 \text{ g}$
- Compressibility: 10 – 30 %
- Resilience:  $\geq 30 \%$

### Why Choose the Vulcan Seals Type VT9D?

- Vacuum impregnated with PTFE dispersion for enhanced sealing performance
- Excellent chemical resistance across a wide pH range (0–14)
- Low coefficient of friction, reducing shaft and sleeve wear
- Good compressibility and recovery for stable gland adjustment
- Suitable for valves and low-speed dynamic applications
- Clean, non-contaminating construction



### Valves - Operating Limits

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



### Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
30 bar	20 m/s	0 - 14



### Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
150 bar	2 m/s	-200°C / -328°F	0 - 14

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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"	0.11	0.243	1	8	VT9D.1/8	VT9D.1/8.1LB
3/16"	0.31	0.684	1	8	VT9D.3/16	VT9D.3/16.1LB
1/4"	0.45	0.992	2	8	VT9D.1/4	VT9D.1/4.2LB
5/16"	0.79	1.742	2	8	VT9D.5/16	VT9D.5/16.2LB
3/8"	1.23	2.712	2	8	VT9D.3/8	VT9D.3/8.2LB
7/16"	1.49	3.285	5	8	VT9D.7/16	VT9D.7/16.5LB
1/2"	1.75	3.859	5	8	VT9D.1/2	VT9D.1/2.5LB
9/16"	2.38	5.248	5	8	VT9D.9/16	VT9D.9/16.5LB
5/8"	3.07	6.769	5	8	VT9D.5/8	VT9D.5/8.5LB
3/4"	4.33	9.548	10	8	VT9D.3/4	VT9D.3/4.10LB
7/8"	5.61	12.370	10	8	VT9D.7/8	VT9D.7/8.10LB
1"	7.00	15.435	10	8	VT9D.1/0	VT9D.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 VT9D is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 730
- Burgmann® | 3187
- Burgmann® | 3408
- Chemstar® | 1152
- Depac® | 714
- Garlock® | 5889
- James Walker® | Fluolion
- Klinger® | 545
- Merkel® | 6375
- Sepco® | ML 2254
- Utex® | 232
- American Branding® | 344
- Burgmann® | 3218
- Crane® | C1045
- Chesterton® | 324
- Flexitalic® | 26 D
- Garlock® | 41607
- John Crane® | 45
- Latty® | 3206 S
- Palmetto® | 1367H
- Teadit® | 17
- Apollo® | 2290
- Burgmann® | 6226
- Chemstar® | 154
- Chesterton® | 1724
- Garlock® | 1607-PM7
- James Walker® | 464 D
- I.M.P.® | 20
- Merkel® | Alchem
- Robco® | 1121
- Teadit® | 2005

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