



Vulcan Seals Type VM5

Technical Data Sheet



Product Description

The **Vulcan Seals Type VM5** is a braided gland packing manufactured from **aramid (Nomex®) fibre**, impregnated with a **controlled level of PTFE lubricant**.

The aramid fibre construction provides reliable mechanical strength and dimensional stability, while the reduced PTFE impregnation level makes the Vulcan Seals Type VM5 a **cost-effective sealing solution for stable operating conditions** where excessive lubrication is not required.

The ****Vulcan Seals Type VM5**** is designed for use in **pumps, valves, and reciprocating equipment** operating under steady, well-controlled process conditions in industrial and utility applications.

Suitable Industries

The Vulcan Seals Type VM5 is suitable for use in:

- ✔ Paper and pulp processing, including mill services where aramid packing is required
- ✔ Sugar processing, including beet and ancillary services
- ✔ Utilities and industrial water services
- ✔ Chemical processing involving clean to lightly contaminated media
- ✔ General industrial pump and valve applications

The Vulcan Seals Type VM5 is not suitable for use in:

- ✘ Applications with high levels of solids, fibres, or abrasive particulates
- ✘ Services with frequent start/stop cycles, pressure fluctuations, or thermal cycling
- ✘ Poorly aligned equipment or unstable gland loading conditions
- ✘ Duties requiring enhanced lubrication or additional shaft protection
- ✘ Applications exceeding the stated pressure, speed, temperature, or pH limits

Chemical Properties

- Base fibre: Aramid (Nomex®) fibre
- Impregnation: PTFE lubricant
- Aramid fibre construction provides reliable mechanical strength and dimensional stability
- Controlled PTFE impregnation supports stable sealing performance under steady operating conditions
- Maintains structural integrity under pressure and consolidation
- Stable chemical resistance across a wide pH range (1-13)
- Suitable for continuous service in stable, well-controlled industrial environments

Why Choose the Vulcan Seals Type VM5?

- **Aramid (Nomex®) fibre construction** provides reliable mechanical strength and dimensional stability
- **Reduced PTFE impregnation** offers a cost-effective solution for stable operating conditions
- Suitable for **continuous service** with consistent gland loading
- Maintains sealing integrity under pressure and consolidation
- Chemically stable across a **wide pH range (1-13)**
- Suitable for pumps, valves, and reciprocating equipment in general industrial service
- Ideal where higher PTFE content is not required



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	10°C / 50°F	1-13



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
80 bar	20 m/s	1-13



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	≤1 m/s	10°C / 50°F	1-13

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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"	0.10	0.221	1	8	VM5.1/8	VM5.1/8.1LB
3/16"	0.28	0.617	1	8	VM5.3/16	VM5.3/16.1LB
1/4"	0.40	0.882	2	8	VM5.1/4	VM5.1/4.2LB
5/16"	0.71	1.566	2	8	VM5.5/16	VM5.5/16.2LB
3/8"	1.10	2.426	2	8	VM5.3/8	VM5.3/8.2LB
7/16"	1.34	2.955	5	8	VM5.7/16	VM5.7/16.5LB
1/2"	1.59	3.506	5	8	VM5.1/2	VM5.1/2.5LB
9/16"	2.15	4.741	5	8	VM5.9/16	VM5.9/16.5LB
5/8"	2.81	6.196	5	8	VM5.5/8	VM5.5/8.5LB
3/4"	3.93	8.666	10	8	VM5.3/4	VM5.3/4.10LB
7/8"	5.23	11.532	10	8	VM5.7/8	VM5.7/8.10LB
1"	6.75	14.884	10	8	VM5.1/0	VM5.1/0.10LB

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 VM5 is a dimensional replacement for the following gland packing ranges:

- American Branding® | 320
- Crane® | K1761
- Palmetto® | 1371
- Sepco® | ML 4700
- Teabit® | 2030
- Utex® | 235
- Chemstar® | 1190
- Garlock® | 1812
- Palmetto® | 1392
- Sepco® | ML 6225
- Universal® | 7538
- Utex® | 248
- Crane® | K1760
- Palmetto® | 1367C
- Sepco® | ML 2240
- Texpack® | 4164
- Utex® | 234

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