



Vulcan Seals Type VK5

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	2 - 12



Centrifugal Pumps - Operating Limits

Max Operating Pressure	Linear Speed	pH Range
40 bar	15 m/s	2 - 12



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
200 bar	1.5 m/s	10°C / 50°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"	0.11	0.243	1	30	VK5.1/8X30MTR	VK5.1/8.1LB
3/16"	0.31	0.684	1	30	VK5.3/16 X30MTR	VK5.3/16.1LB
1/4"	0.44	0.970	2	8	VK5.1/4	VK5.1/4.2LB
5/16"	0.78	1.720	2	8	VK5.5/16	VK5.5/16.2LB
3/8"	1.21	2.668	2	8	VK5.3/8	VK5.3/8.2LB
7/16"	1.46	3.219	5	8	VK5.7/16	VK5.7/16.5LB
1/2"	1.72	3.793	5	8	VK5.1/2	VK5.1/2.5LB
9/16"	2.34	5.160	5	8	VK5.9/16	VK5.9/16.5LB
5/8"	3.01	6.637	5	8	VK5.5/8	VK5.5/8.5LB
3/4"	4.25	9.371	10	8	VK5.3/4	VK5.3/4.10LB
7/8"	5.61	12.370	10	8	VK5.7/8	VK5.7/8.10LB
1"	7.25	15.986	10	8	VK5.1/0	VK5.1/0.10LB

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 VK5 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 270
- Burgmann® | 3394
- Burgmann® | 6430 KS
- Depac® | 722
- James Walker® | Hornet
- John Crane® | 1993
- Merkel® | 6216
- Sepco® | ML 4004
- Texpack® | 4167
- Utex® | 214
- AESSEAL® | 274
- Burgmann® | 5035
- Chemstar (UAS)® | 165-K
- Flexitalic® | 801
- I.M.P.® | 4790
- Latty® | 4757
- Palmetto® | 1359
- Texpack® | 4154
- Teabit® | 2017
- Utex® | 216
- American Branding® | 8000TK
- Burgmann® | 5040
- Crane® | C1064
- James Walker® | 131
- I.M.P.® | 4757
- Merkel® | 6211
- Pillar® | 4529
- Texpack® | 4155
- Teabit® | 5004
- Utex® | 225

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