



Vulcan Seals Type VC1

Technical Data Sheet



Product Description

The **Vulcan Seals Type VC1** is a high-performance braided packing manufactured from **phenolic thermoset synthetic fibre**, fully impregnated with PTFE dispersion and finished with a controlled lubrication system.

The thermoset fibre structure provides exceptional oxidative stability, steam and hot aqueous resistance, and dimensional integrity under pressure and thermal cycling. The ****Vulcan Seals Type VC1**** is intended for elevated temperature utility services that require chemical durability rather than abrasive fibre reinforcement.

Suitable Industries

The Vulcan Seals Type VC1 is suitable for use in:

- ✔ Steam and condensate utility circuits
- ✔ Boiler house feedwater and thermal support lines
- ✔ Power station hot water auxiliaries
- ✔ Refinery water/condensate return systems
- ✔ Chemical plant heated rinse duties
- ✔ Paper mill utilities: boiler plant, chemical dosing, condensate return

Chemical Properties

- Base construction: **phenolic thermoset synthetic fibre**
- Impregnation: PTFE with controlled lubrication
- High oxidation tolerance in heated aqueous systems
- Strong alkaline and chemical wash stability
- Not recommended for abrasive slurry, fibre stock or mineral suspension duties

Why Choose the Vulcan Seals Type VC1?

- Phenolic thermoset synthetic fibre delivers strong oxidative and steam resistance compared to conventional organic fibres
- PTFE impregnation ensures low-friction break-in and reduced glazing under consolidation
- Excellent sealing integrity under compressive load and temperature variation
- Suited to non-abrasive elevated temperature duties in process utilities
- Designed for hot condensate, steam support and chemical wash circuits without particulate interference



Valves - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
250 bar	Static Only	-50°C / -58°F	2 - 12



Centrifugal Pumps - Operating Limits

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



Reciprocating Pumps - Operating Limits

Max Operating Pressure	Linear Speed	Min Operating Temperature	pH Range
80 bar	2 m/s	-50°C / -58°F	2 - 12

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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	VC1.1/8	VC1.1/8.1LB
3/16"	0.30	0.662	1	8	VC1.3/16	VC1.3/16.1LB
1/4"	0.42	0.926	2	8	VC1.1/4	VC1.1/4.2LB
5/16"	0.73	1.610	5	8	VC1.5/16	VC1.5/16.5LB
3/8"	1.14	2.514	5	8	VC1.3/8	VC1.3/8.5LB
7/16"	1.36	2.999	5	8	VC1.7/16	VC1.7/16.5LB
1/2"	1.61	3.550	5	8	VC1.1/2	VC1.1/2.5LB
9/16"	2.12	4.675	5	8	VC1.9/16	VC1.9/16.5LB
5/8"	2.66	5.865	10	8	VC1.5/8	VC1.5/8.10LB
3/4"	3.75	8.269	10	8	VC1.3/4	VC1.3/4.10LB
7/8"	4.84	10.672	10	8	VC1.7/8	VC1.7/8.10LB
1"	6.00	13.230	10	8	VC1.1/0	VC1.1/0.10LB

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 VC1 is a dimensional replacement for the following gland packing ranges:

- Chesterton® | 1727
- U.S. Seal MFG® | 310

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