



Vulcan Seals Type VR1

Technical Data Sheet



Product Description

The **Vulcan Seals Type VR1** material is essentially pure carbon in Graphite form processed into flexible foil material without any fillers, binders, or other additives. The product is self-lubricating, dimensionally stable, impervious to gases and fluids, and shows exceptional temperature and chemical resistance. Grafan offers unrivaled sealing capabilities under extreme temperature, media, and pressure conditions giving extended packing life.

Graphite in this form is self-lubricating with a low coefficient of friction (comparable to Teflon), high thermal conductivity, and permanent volumetric elasticity (spring back) which results in no volume reduction (compression set) in use. Resilient with ideal fluid and gas sealing characteristics and extreme capabilities, Grafan offers the ultimate range and performance in a packing material.

Vulcan Seals Type VR1 is a crimped Grafan ribbon tape, available from 6mm to 75mm wide, for in situ packing of valve stems and then it is easily compressed into a uniform packing ring. Using this system, a small tape inventory can pack any size of the gland with superior service results.

Why Choose the Vulcan Seals Type VR1?

- Exceptional temperature and chemical resistance
- Designed for use in static applications
- Self-lubricating, dimensionally stable, and impervious to gases and fluids

Suitable Applications

Extreme condition, long life, and zero leakage packing for all uses, up to high temperature, high pressure, and static applications only. Resists all acids, alkalis and solvents (except very strong oxidisers), gases, feed water and superheated, or saturated, steam.

Operating Limits

Pressure Rating	Rotary Speed	Temperature	pH Range
200 bar	1 M/S	-200°C to +3000°C (Inert ATM) -200°C to +600°C (In Air)	0 - 14

Gland Packing Replacement Range

The Vulcan Seals Type VR1 is a dimensional replacement for the following gland packing ranges:

- AESSEAL® | 370
 - Burgmann® | 4045
 - Drew® | 1000
 - James Walker® | 505 Supagraph
 - I.M.P.® | 49
 - Palmetto® | 1400
 - Robco® | Graf Tape
- Apollo® | Graf-Pak
 - Chesterton® | GTP
 - Flexitalic® | 160
 - Garlock® | Graph-Lock
 - Latty® | Lattygraf
 - Palmetto® | Palfoil
 - Tombo® | 2220 RP
- Burgmann® | 4040
 - Depac® | 700
 - Flexitalic® | 161
 - John Crane® | K 40
 - Merkel® | Graf Flex Tape
 - Pillar® | 6650

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