

GOOD DAY

Means Quality And Reliability Assured



48450111

JULCAN

Mechanical Seals Presentation

THE PARTY OF

<u>The Scale,</u>

JULCAN

TRACE

Experience,

Foot Print,

Desire And Ability

To Surpass Our Partner Expectations "Anywhere"

48430111

Vulcan Seals Presentation

Vulcan are dedicated to being the;

(puroll)

JULCAN

"World's Best Standard Mechanical and Encapsulated Seal Manufacturer and Supplier"

THIS PRESENTATION EXPLAINS HOW WE ACHIEVE THAT PLUS, MOST IMPORTANTLY AND FIRSTLY BY WAY OF INTRODUCTION; A SUMMARY OF WHAT THAT MEANS TO YOU.

Vulcan's Outstanding Distributor Services



JULCAN

Vulcan Production and Service Centres; on Three Continents; ensure Total Support to our Distributor Partners.

The Widest Range, a Guaranteed Ex-Stock Policy and Electronically Assured Same Day Despatch; enables absolute reliance upon our stocks to support your sales.

Distributor Led Marketing Policy; backed by an industry leading marketing and Information/Support Package.

Industry Leading Vulcan Product



JULCAN

Advanced, Electronically Automated, Manufacturing, Inspection, Stock Holding And Distributor Focused, Web Portals and Supply Logistics, Systems.

Quality is Paramount Throughout Vulcan; Electronically Assured from Automated Systemisation of our Design, Production, Assembly, Inspection, Sales and Supply Logistics.

Undoubtedly the best Price, Quality and Service Package in the Global Seal Market; which has enabled our Distributor's World-Wide to drive our 20%+ p.a. sales growth.

Mechanical Seals



JULCAN



320+ Mechanical Seal Design Types

Our Stock Codes of Potential M.S. Assemblies exceed one million

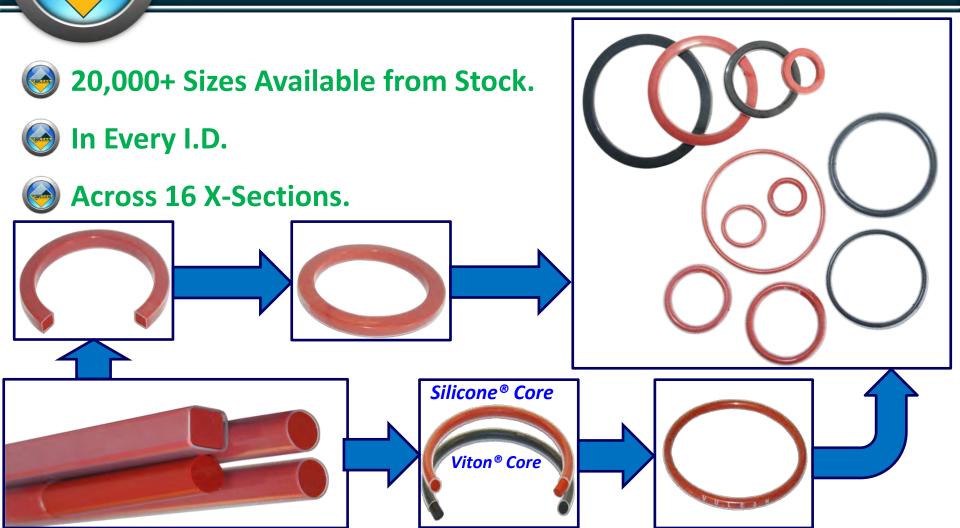


All Available for Build and Despatch within 24 Hours.

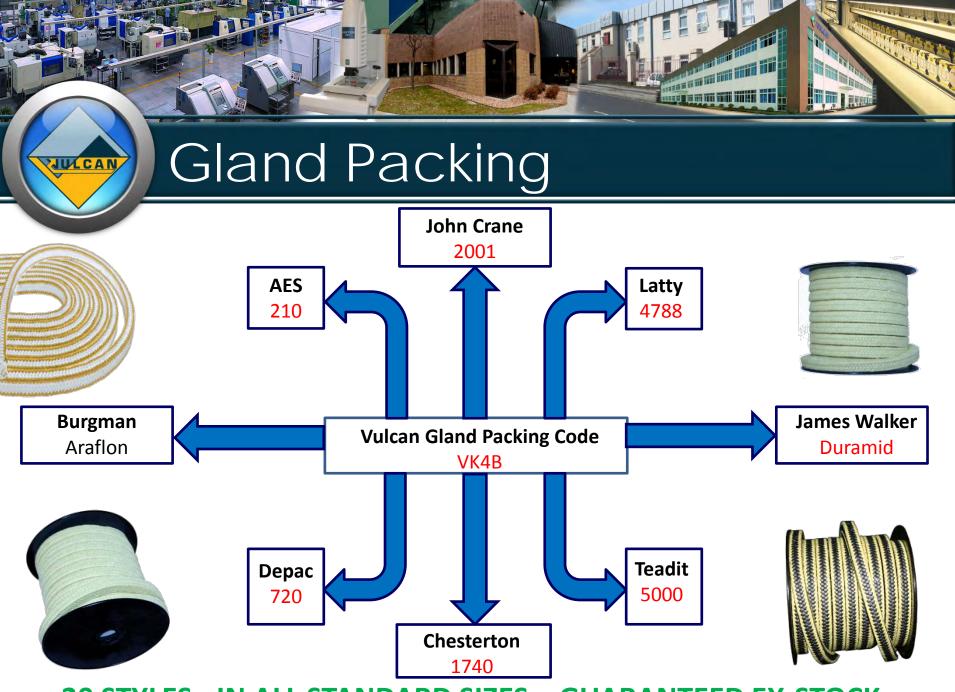


Quality Range Service Price

FEP/PFA Encapsulated Chem-Rings

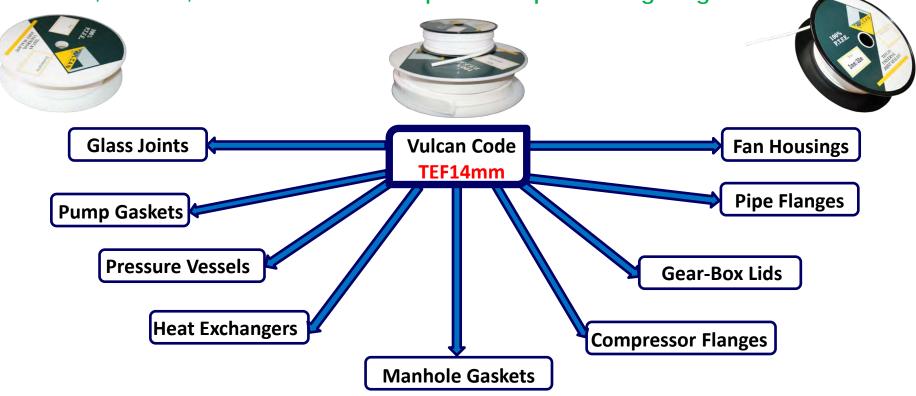


JULCAN



20 STYLES - IN ALL STANDARD SIZES – GUARANTEED EX-STOCK





FULL RANGE OF STANDARD SIZES – IN ALL 3 PRODUCTS – GUARANTEED EX-STOCK

Vulcan Business Ethics Policy

Ethics; To always operate with the highest Integrity, at the forefront of our industry.

Excellence; Our only acceptable standard – even then, we still strive for continuous improvement.



JULCAN

Effective; Driven by a bias for Action.



Efficient; Seeking the simplest and most assured solutions, for all of our challenges.



Ethical; Have sound morals and believe in what we do.



Empowerment; Exceptional people and partners.



20/20 Vision; V.E.L. alone will be a £20 (€25/\$30) million T/O Company by 2020; as one of the Key Companies, within the overall Global Vulcan Group.

Vulcan Company Introduction

With over four hundred employees, in our Production and Service Centres on 3 Continents, Vulcan specialise in the design automated manufacture and electronic distribution of;

- Standard Mechanical Seals
- FEP/PFA Encapsulated 'O'-Rings
- Gland Packing's

JULCAN

Expanded PTFE Gasket Materials

Vulcan Primarily Focus On Being The World's Best "Standard Mechanical Seal" and "Encapsulated 'O'Ring" Manufacturer And Supplier.

In order to do this, we have a two part company strategy;

Vulcan's Vision: Our Strategic Plan

- Part 1. To be the Best Global "Standard Mechanical Seal" Company. We have achieved this by;
 - **1 = ADVANCED PRODUCTION** = Having the most advanced, most integrated, most efficient manufacturing facilities.

JULCAN

- 2= MATERIAL QUALITY = Specifying and manufacturing only superior quality materials; primarily produced in-house.
- **3=** ELECTRONIC AUTOMATED QUALITY = Utilising extremely intensive and extensive Electronic Quality, Inspection and Work Documentation Systems.
- 4= DESIGN = Producing Seal Replacement Designs that are superior to our competitors and to the original designs.
- 5= RANGE = Having the widest range of Mechanical Seal Types, from any Supplier or Manufacturer, with replacements for all standard Seals, in every Global Market.

In short, to be the best manufacturer

1= Advanced Manufacturing Facilities



JULCAN

Vulcan's Main Factory: 17,000 Square Metres.



World Class Facilities and People: 5 Production Centres on 3 Continents.



ISO 9001- 2008 Approved: Production and Distribution.



Modern, Advanced, CNC, Automated Production.



Electronic Production Control, Inspection and Systems.





17,000 Square Metre Facility

Advanced, CNC, Automated Production

Electronic Inspection/Production Control

Quality and Reliability Assured

Main Factory

Vulcan's Automated Machining



JULCAN







Main Vulcan CNC Machine Shop



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JULCAN

2= Vulcan's Material Quality



JULCAN

Most Vertically Integrated Seal Manufacturer



Materials and Components made In-House



Best Material Specification Standards



Absolute Cost and Quality Control



Carbide Materials; A Sales Opportunity.



ATLAS – Silicon Carbide + Powder HAIMI – Seal Parts and Springs

Two Material Joint Ventures;







2 Of 36 CNC Grinders

ATLAS Silicon Carbide Factory

HIL

Vulcan gineeri Group

ATLAS loone Carbi Factory

ATLAS

JULCAN

HAIMI Materials: Factories

JULCAN



3= Quality and Reliability Assured

Comprehensive Inspection Documentation



JULCAN

Unique SKIS Assembly Inspection Control



Electronic Inspection/Production Control/ Supply and Distribution

Quality is Paramount Ethos THUS, A VULCAN SEAL MEANS QUALITY AND RELIABILITY ASSURED



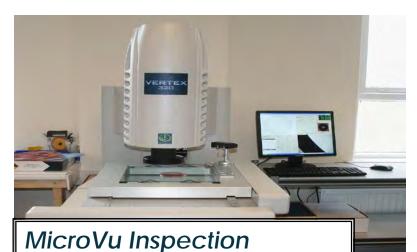
Vulcan's Inspection Facilities



JULCAN

















Computerised Material Analysis





Example Page from Vulcans Seal Design Improvements Presentation.

Type A1 Description

Robust, long working length, highly accommodating and reliable, rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common UK and Euro housing dimensions.

Balanced

JULCAN

LANCED IAPHRAG

The Vulcan A Series range seals are specially balanced to a recognised industry standard, to reduce heat and friction at the seal interface. This allows for higher operating parameters to be achieved and prolongs seal life. Our competitor's seals are not balanced as standard and therefore do not offer the full benefits of a balanced seal.

Bellows Disk

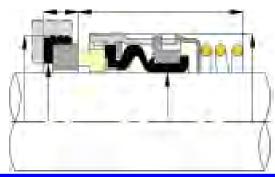
The Vulcan A Series seal family includes a bellows disk, as a standard design feature. This component provides radial support to the bellows, ensuring no bellows/shaft contact, which could result in seal wear and possible hang-up. This component is routinely omitted in the Crane ® USA designs but is included on UK/European Type 1A and 2. Without the disk, the bellows ID's are very close to the shaft and can be problematic, due to bellows extrusion and shaft contact/stiction. Base Plate Retaining Vulcan A1 to A5 seal types retain the base plates on the coil as standard, providing support during seal fitting.



Seal Face Retaining The Vulcan seal face is retained by inert grease and NOT glue. Some seal suppliers chose to utilise glue which can create a leakage path, and on chemical attack, the glue can migrate into seal components and product.

Seal Compatibility (European Based manufacturers) John Crane® Type 1A

Cross Sectional Line Drawing



Bellows Design

The flexible bellows compensates for primary seal face wear and machinery misalignment, such as shaft end float. The Vulcan A Series bellows contains an additional drive ring supporting lip, to ensure that the drive ring is held in a positive position, away from the bellows. This feature is not included in many alternative designs, which can result in possible bellows interference, affecting seal performance.

5= Vulcan's Seal Range



JULCAN

The Widest and Most Assured Stock Range From Any Seal Manufacturer.

Guaranteed Ex-Stock Policy



140 page Mechanical Seal Manual, showing the Guaranteed Stock part of our range only.

Vulcan's Vision Our: Strategic Plan

Part 2: To be the Electronic Seal Warehouse to the Trade.

1= Integrated, Electronic, Distribution and Logistics; with Service Centres on Three Continents.

- 2= Distributor Specific Web Portal
- **3=** Distributor Led Marketing

JULCAN

- **4=** Unbeatable Product, Service & Prices
- 5= O.E.M. Seal Development

To be the World's Premier Supplier, of the best Seal Product

1 = Vulcan Electronic Distribution



JULCAN

Complete, Integrated, Electronic Processes



Bar-Coded, Branded or Unbranded, Product Packaging



Computer Controlled Stock Carousels and Logistics



The Electronic Seal Warehouse: Leading, The Mechanical Seal Industry. Supplying distributors in over 90 countries













Vulcan Seals Inc.

JULCAN

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Vulcan Seals Inc. Service Team

First of three planned Total Service Centres within the North American Continent.

JULCAN

8,000sq.ft. Service Facility with extensive stocks.

Extends Vulcan's Stock Guarantee and Local Service to the North American market.

2= V.E.B.; Vulcan Electronic Business

Unique, "Fast and Vast", Distributor Specific Web Portal.

Outstanding "Enquiry/Supply and Information" Site

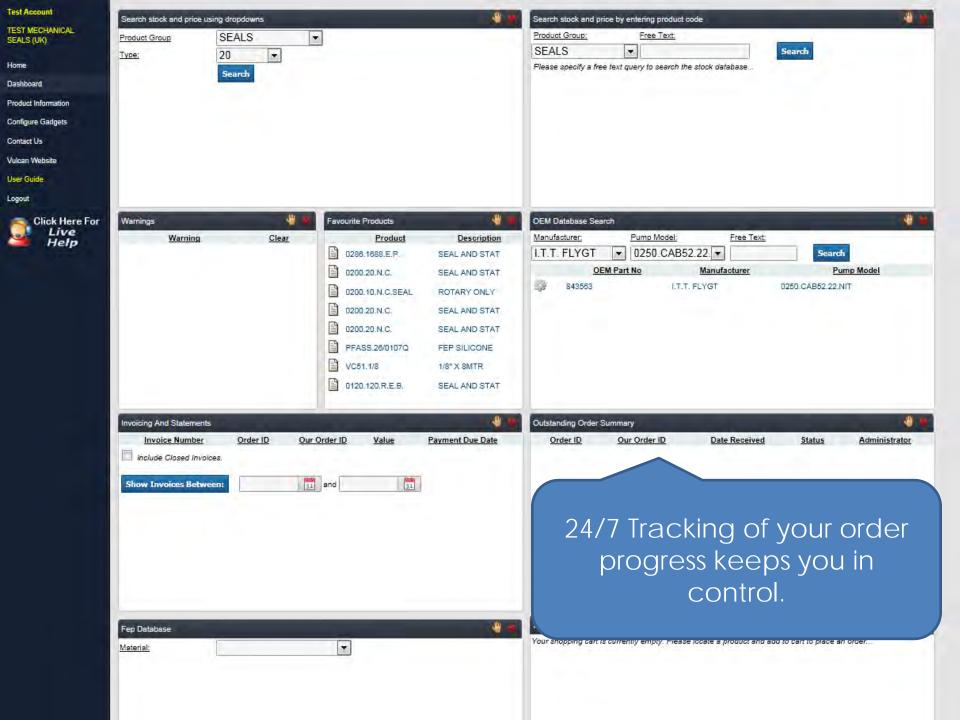
JULCAN

Industry Leading, Company and Product, Data-Base

Minstant Comprehensive Information: Whatever, Wherever and Whenever.

View Stock and Nett Price: Place Orders, Track Supply, etc. etc.

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3= Vulcan Seal Marketing

Distributor Led Marketing; Any Brand Packaging.



JULCAN

Electronic Inspection, Brochure, Design Product And Group Commercial; Presentations.



Brochures, Posters, Display Cases, Seal I.D. Suite.





Standard Distributor Packs.









4= Unbeatable Product, Service and Prices

Assured excellence in Product Quality Standards and Reliability, founded upon a Total Quality Ethos throughout every part of our business, an ethos that is paramount.

Reliability from design, electronic manufacture / inspection, logistics and constant innovation. We ensure that Quality endures long after the initial product cost is forgotten.

JULCAN

Vulcan Seals Generally Out-Perform and Out-Last the Original (and certainly copyist) Designs.

The Me



Our extra-ordinarily Extensive Range and Electronically Assured Ex-Stock Supply, ensure the seals are there; whenever you need them.



All Commercial Enquiries are Guaranteed to be Responded Within 2 Working Hours.



All Information and Pricing available instantly on your unique Web Portal.



Vulcan Price Guarantee: not just price. But we do Guarantee to be The Lowest True Cost Supplier. The Most Competitive, Lowest Total Cost, Provider of Quality Seals.

The Vulcan Stock Guarantee



JULCAN

Unique, Industry Leading, Stock Assurance Guarantee. In fact, the only one.

Covering All Types, Sizes, 3 Elastomers and 3 Face Combinations of M.S.



Incorporating every I.D. and X-Section (1.78 to 7.00mm) of FEP.

All Standard Packing and Tefcan Sizes are;







5= Vulcan OEM Seal Supply

In addition to our standard range of stock seal types, Vulcan also manufacturers and stock many thousands of individual seal designs, for specific pumps and applications.

We are leading providers of seals for O.E.M Manufacturers, due to the following principal advantages;



JULCAN

TIP

A Can-Do Philosophy linked to a commercial readiness to produce specials.



The best Designs, Quality, Service and Price available from any one Source.



In-house specification and production of practically all materials, components and even the tools/moulds for the same.



Ability to design and manufacture, almost any, seal to customer requirements.



Agreements to produce special designs/details, that are not made available for sale to anybody else. Unique commercial value to the OEM.



We offer O.E.M's their own unique seal, designed and optimised for their applications, branded as their own and protectable as their own.

V.E.B.; The Very Best

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Vulcan Committed to Excellence



JULCAN

Product Design, Materials, Quality, Production, Range, Stock, Service And Electronic Supply



Supreme Central Position In World Market



Specials, O.E.M's, Niche Markets



Individually Tailored Pricing: Most Competitive Supply

The Way Forward

JULCAN



The Seal of Excellence



Vulcan are dedicated to being the;

"World's Best Standard Mechanical and Encapsulated Seal Manufacturer"

THANK YOU