



# VULCAN<sup>®</sup> ENGINEERING GROUP



*Clarity In A Complex World*

*Surety In An Unreliable World*

*Vulcan Means Quality, Reliability and Availability Assured*



# **“ELECTRONICALLY ASSURED SERVICE, QUALITY AND RANGE TO THE GLOBAL SEAL TRADE.”**

Vulcan Production and Vulcan Service Centres; on the three main Continents that span the Globe.

Advanced, Electronically Automated Manufacturing, Inspection, Stock Holding And Distributor Focused, Supply Logistics Systems

The Widest Range backed by a Guaranteed Stock Policy and with Same Day Despatch

Globally The Best Product, Material, Design and Production Quality, Range, Guaranteed Ex-stock Service and Price

## **The Scale, Experience, Global Foot Print, Ability And Desire To Surpass Our Distributor Expectations, Anywhere.**

### **THE VULCAN ENGINEERING GROUP**

The Vulcan Group, with some way over four hundred staff, in our six production sites and our global distribution centres, are one of the world's leading Standard Mechanical Seal and FEP / PFA Encapsulated 'O' Ring Seal manufacturers. Founded in 1987, The Vulcan Group continues to rapidly grow through our exceptional investment in material and design development, vertically integrated, advanced, modern production facilities, with primarily automated manufacturing machinery, and electronically controlled, assured stock-holding, logistics and distribution.

### **STOCK GUARANTEE**

Vulcan have established new leading industry standards, with our product range, performance / quality, guaranteed ex-stock service and pricing. We have the widest range of "Standard" Mechanical Seals and Encapsulated 'O'-Rings, available from any manufacturer or supplier in the world, backed by a comprehensive Ex-Stock Guarantee.

### **VERTICALLY INTEGRATED MANUFACTURE**

Vulcan's modern production facilities exceed 23,500 sq. metres / 250,000 sq. foot of total floor space. Our policy of vertical integration enables us to absolutely Quality and Cost Control all parts of the Vulcan seal, whilst Electronic Production, Inspection and Process Control are integral to every aspect of our production and logistics.

### **DESIGN RANGE**

All Vulcan Seals are manufactured in-house to our own Design, Technical and Material Standards. We have eliminated the faults common in some original and many copy Seal designs, through close attention to design detail and material improvements.

### **QUALITY ASSURANCE**

Vulcan have extremely extensive and intensive Quality, Inspection and Documentation Systems. In-depth, electronically integrated, process documents and assessment, systems and electronic measurement machines, govern all aspects of manufacture, assembly, inspection and supply.

Thus a Vulcan Seal Means Quality, Reliability and Availability Assured.

### **ELECTRONIC INVESTMENT**

Our philosophy is to heavily invest in IT, automation, technology and our people. Our over-riding ethos is Quality and Efficiency, through electronic automation of our entire company processes and operations.

### **QUALITY SEALS**

Assured Quality throughout Design, Manufacture, Materials, Inspection and Assembly, are critical to a Seal's Capability, Performance and Life.

### **SUPPLY PHILOSOPHY**

Our vision is to be The Electronic Seal Warehouse to the seal trade and to continue to provide ever increasing levels of service, product (Distributor own or Vulcan branded) and information, to our partners in, already, over ninety countries.

### **VULCAN WEB PORTAL**

Vulcan have created and collated a vast array of seal identification information within our Web Portals, that are electronically established for each of our partner customers. The first half of the portal contains an entire on-line product enquiry, specification, order and supply processing site. The second part is a complete Technical and Commercial Data-Base of information on Vulcan and its products.

### **VULCAN ETHOS**

Is to be the best possible supplier and partner, through our Commitment to Excellence and Determination to provide Exceptional Price, Quality and Service.

Vulcan, the symbol of Sheffield's prowess in metal engineering, is a four metre, bronze statue that stands sixty metres high atop Sheffield's City Hall.



# VULCAN® MANUFACTURING FACILITIES



## VULCAN® MANUFACTURING

- 🌐 Six Production Plants.
- 🌐 Located On Three Continents.
- 🌐 17,000 Square Metre / 200,000 Square foot Main Facility.
- 🌐 Advanced, CNC Automated, Production.
- 🌐 Electronic Inspection/Production Control.
- 🌐 Production Quality And Reliability Assured.

### ELECTRONIC INSPECTION

Vulcan are and have long been, passionate about the benefits for Seal Quality Assurance and Performance improvement, from the use of automated, electronic imaging, sizing and analytical Machines, at each stage of manufacture, assembly and supply, from incoming materials to final bar-coded despatch.



### MECHANICAL SEAL TESTING

All Vulcan mechanical seal design types shown in our brochure have been tested on our rotary test facilities.

Vulcan can even offer 100% batch inspection and test, to agreed parameters, as part of our supply to individual customer contracts and specification.



### MATERIAL TESTING



Our policy has always been to specify the best quality elastomer and seal face materials, as they are the very essence of "what actually seals". To support and ensure this and as an integral part of our new material / production developments, we have extensive material test facilities.

### RELIABLE PRODUCT

There are many alternative seal suppliers around the world. At first sight, their product may look similar but often lacks the many vital aspects which go to make a Quality Product. Failures in supply, specification, material quality, fitting or operation can often result. The key is surety, safety, reliability and the resultant seal capability, performance and life. We pride ourselves on being;

**The Most Cost Competitive, Lowest Total Cost Provider of Quality Seals.**



### VULCAN® MECHANICAL SEALS

- 🌐 Industry Leading Designs, Materials, Quality and Technology Up-Grades; backed by Superb Service and Pricing.
- 🌐 The superior reliability and performance of our products and service enables our Partner Distributors to enhance their success, in their markets.

### VULCAN® FEP/PFA ENCAPSULATED 'O'-RINGS

Intricate production, intensive quality along with electronic inspection. The most competitive prices, quality manufacture and the largest stocks; means that Vulcan are;

### "THE BEST ENCAPSULATED 'O'-RING MANUFACTURER AND SUPPLIER"

**With Guaranteed Ex-Stock Supply in every X-Section;** from 1.78 mm (0.070") to 7.00 mm (0.275"). In every I.D. increment, from the smallest to the largest standard size.

### VULCAN® PACKINGS

Vulcan offer an extensive range of Gland Packings designed and constructed to minimise maintenance costs. All Vulcan packings are square-braided on the most advanced specification braiding machines available. As the quality of a packing's braiding significantly affects it's capability, performance and service life.

Vulcan packings superior, lattice, square inter-braided construction requires less gland pressure to seal, resulting in reduced equipment wear, reduced gland maintenance and increased packing life.

### VULCAN® TEFCAN

Expanded PTFE; in the form of Gasket Sheetting, Gasket Tape and a Universal Joint Sealant. Exceptional material quality and performance, for superior gasket sealing, in a wide variety of applications.

# VULCAN® MEANS “QUALITY AND RELIABILITY ASSURED, WITH AN EX-STOCK GUARANTEE

*Clarity In A Complex World.*

*Surety In An Unreliable World*

*If It's In Our Brochure, It's In Stock.*

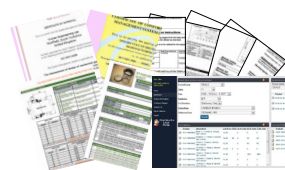
*And That's Guaranteed. Unless Stated*

## VULCAN® QUALITY

- 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 through design, automated manufacture, electronic inspection and logistics and constant innovation. We ensure that Quality endures long after the initial product cost is forgotten.
- Unbeatable Stocks, Quality, Product, Service and Prices.

## THE VULCAN® ENGINEERING GROUP

- Manufacturing and Service Centres located within Europe, Asia and America.
- 20%+ p.a. compound growth for over a Quarter of a Century now, since our foundation.
- Growth based upon our Outstanding, Industry Leading Product Range, Quality, Service and Prices.
- Vulcan focus, not as suppliers, but Partners to our Distributors, constantly surpassing their expectations with our Total Service “Will Do” Ethos.
- We are the World's leading supplier of Standard Mechanical and Encapsulated Seals to Distribution.



# VULCAN® : COMMITTED TO EXCELLENCE

## GLOBAL SERVICE

- Manufacturing and stock-holding on three continents that span the globe.
- Distributor Partners in over 90 countries provide local service and technical support.
- Integrated, exceptional, electronic logistics and systems that support and assure our unique, comprehensive, *Ex-Stock Supply Guarantee.*



## ELECTRONIC LOGISTICS

- The Electronic Seal Warehouse: To The Seal Trade
- Industry Leading Automated Logistics and Service.
- Unique, Distributor Specific, 24-7, Web Portals.



## VULCAN® UNIVERSEAL INC

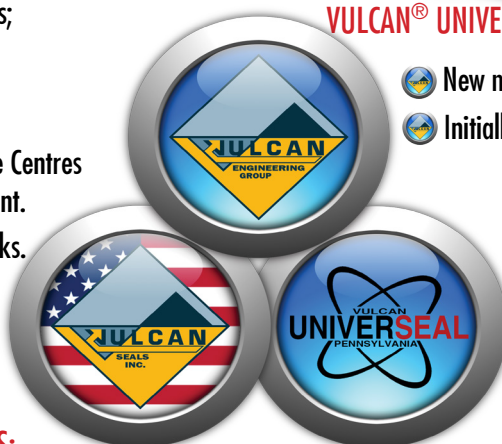
- New manufacturing and service facility based in Pennsylvania.
- Initially focused on production of FEP/PFA Encapsulated Seals.

## VULCAN®, SHEFFIELD, UK

- The Main Technical, Commercial and Service Hub of our Global Businesses.
- Provides Exceptional Distributor Support, through excellence in every aspect, of our Long Term Partnerships.
- Over one million Stock Combinations; guaranteed for same day despatch.

## VULCAN® SEALS INC

- First of three planned Total Service Centres within the North American Continent.
- Service Facility with extensive stocks.
- Extends Vulcan's Ex-Stock Guarantee and Local Service to the North American market.



## VULCAN'S COMMERCIAL OFFICES;

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